

author index

Index of Issues: January, pp 1-176; February, pp 177-344; March, pp 345-504; April, pp 505-672; May, pp 673-832; June, pp 833-992. Page numbers beginning with S denote articles in the June Pathology Patterns Reviews.

A

Abati, Andrea, 922
 Aceituno, Esther, 952
 Akbari, Majid, 723
 Akino, Fumiyuki, 908
 Akiyama, Futoshi, 109
 Allred, Elizabeth M., 96
 Almoujahed, Mohammad O., 771
 Alves-Dunkerson, Joseli A., 809
 Amazit, Larbi, 210
 Ambinder, Richard F., 259
 Amin, Mahul B., 552
 Andrew-JaJa, Carey, 524
 Ansari, Saira, 783
 Apperley, Jane F., 360
 Arancia, Giuseppe, 484
 Arber, Daniel A., 306
 Argani, Pedram, 791
 Ash, Owen, 683
 Ashley, Rhoda L., 156
 Ashwood, Edward, 683
 Astill, Mark E., 589
 Aventin, Anna, 864

B

Bach, Philip, 683
 Bailey, David N., 396
 Balaton, André J., 81
 Ball, Greg, 716
 Baloch, Zubair W., 143, 199
 Baptista, Matt A., 766
 Bassetti, Danila, 316
 Batra, Surinder K., 791
 Bayerl, Michael G., 41
 Bedell, Victoria, 306
 Bellido, Mar, 864
 Beneke, Janet, 935
 Benhattar, Jean, 451
 Bentz, Joel S., 457
 Berenson, James, 268

Bergman, Simon, 709
 Berner, Aasmund, 225
 Berrak, Su G., 644
 Bialek, Ralf, 597
 Bian, Yan-Song, 451
 Bizzaro, Nicola, 316
 Bo, Patrizia, 90
 Boecklin, Federica, 360
 Boldrini, Renata, 484
 Bordes, Ramón, 864
 Borowitz, Michael, 259
 Bosman, Cesare, 484
 Bosman, Fred T., 451
 Brailey, Allison G., 851
 Branda, John A., S116
 Briggs, John R., 396
 Briski, Laurence E., 771
 Brosky, Keith, 922
 Brousset, Pierre, 51
 Brugnara, Carlo, 683
 Bryne, Magne, 225
 Buchwald, Dedra S., 156
 Budde, Uwe, 900
 Bueso-Ramos, Carlos, 252, 716
 Bulian, Pietro, 871
 Burlo, Paola, 90
 Burritt, Mary F., 802
 Buttarello, Mauro, 871

C

Cagle, Philip T., 9
 Calduch, Luis, 126
 Calvo, Benjamin F., 729
 Camassei, Francesca Diomedei, 484
 Cameron, John L., 791
 Caplan, Aaron, S104
 Cartagena, Norberto, 797
 Castañón, Susana, 952
 Cathro, Helen P., 944
 Cesarman, Ethel, 268

Chadburn, Amy, 268
 Chan, John K.C., 16, 103, 246
 Chang, Alexander R., 437
 Chang, Andrina, 437
 Chang, Chia-Liang, 627
 Chang, Sheng-hsiung, 62
 Chase, Andy, 360
 Chauhan, Nikhil, 892
 Chen, Shiao-Yen, 429
 Chen, Vicky, 783
 Chen, Wei-jen, 429
 Chen, Yue-hua, 627
 Cheuk, Wah, 103
 Choi, Tak-Shun, 74
 Chong, King S., 437
 Chorneyko, Katherine, 783
 Chu, May, 205
 Cianfriglia, Maurizio, 484
 Clary, Karen M., 567
 Coffin, Cheryl M., 683
 Condel, Jennifer L., 534
 Copeland, John N., 552
 Couturier, Jérôme, 81
 Craig, Fiona E., 259, 615
 Cravello, Maurizio, 90
 Creager, Andrew J., 217, 709
 Cress, Gretchen A., 809
 Cripe, Larry D., 844
 Cupples, James B., 723

D

Dale, Jane C., 802
 Dalton, Scott R., 766
 Danjoux, Marie, 51
 Darragh, Teresa M., 96
 Dasgupta, Amitava, 325
 Davey, Diane D., 517
 Davidson, Ben, 225
 Dekker, Wim, 117
 de la Maza, Luis M., 152
 de Mascarel, Antoine, 51

Denardi, Franco, 783
 Derhagopian, Robert P., 797
 Dhar, Sunanda, 360
 Dietz, Klaus, 597
 Dodson, Andrew R., 81
 Donfrancesco, Alberto, 484
 Douglas, Vonda K., 844
 Dressler, Lynn G., 729
 Drillenburger, Paul, 117
 Dry, Sarah M., 424
 Dubus, Pierre, 51
 Dunphy, Cherie H., 24

E

Echeverri, Carolina, 615
 Eilender, David, 41
 Elavathil, Leela, 783
 Elston, Dirk M., 766
 Eng, Hock-Liew, 429
 Enomoto, Takayuki, 738
 Ernst, Friederike, 597
 Estivill, Camino, 864
 Evans, H. Lance, 24

F

Fairbanks, Virgil F., 857
 Fan, Sheung T., 411
 Farina, Giorgio, 871
 Fehr, Jörg, 237
 Filie, Armando C., 922
 Finn, William G., 29, 301
 Fisher, Stephen, 615
 Fletcher, Christopher D.M., 188
 Fohlen-Walter, Anne, 606
 Fonatsch, Christa, 380
 Fontollet, Charlotte, 451
 Francalanci, Paola, 484
 Frankel, Wendy L., 419
 Frater, John L., 776
 Freedman, Steven D., S109

Frost, Michael, 738
Fujisawa, Masato, 401
Fujiwara, Mutsunori, 546

G

Gabastou, Jean-Marc, 205
Gabbert, Helmut E., 558
Gal, Anthony A., 552
Gardner, Laura J., 24
Gascoyne, Randy D., 574
Geaghan, Sharon, 683
Geisinger, Kim R., 217, 709
Genega, Elizabeth M., S36
Gianini, Roberto, 738
Giesler, Ronald, 783
Gilks, C. Blake, 723
Givant-Horwitz, Vered, 225
Glaser, Sally L., 259
Glasser, Lewis, 57
Goggins, Michael, 755
Goldberg, Iris, 225
Goldblum, John R., S49
Goldman, John M., 360
Goldstein, Neal S., 471, 541, 927

Golitz, Loren E., 276
Gong, Jerald Z., 880
Gopez, Evelyn V., 457
Gould, Edwin W., 19, 797
Grant, Dennis R., 723
Graybill, John R., 597
Green, Eric, 268
Greer, Patricia W., 205
Greer, Ryan W., 589
Greilich, Philip E., 74
Grosso, Leonard E., 24
Grzybicki, Dana Marie, 524, 534, 567
Guarner, Jeannette, 205
Guiochon-Mantel, Anne, 210
Gulley, Margaret L., 259

H

Hakim, Valeria M., 392
Hamaguchi, Yukio, 401
Hamilton, Marilyn S., 683
Hans, Christine P., 301
Hanson, Curtis A., 857
Harenberg, Job, 900
Haringsma, Jelle, 117
Hart, Alison R., 524
Hashimoto, Shuichi, 464
Hasserjian, Robert P., 360
Hasumi, Katsuhiko, 109
Hayes, Edward, 205
Hecht, Jonathan L., 745
Hembury, Thomas A., 574
Henry, Kristin, 360
Hernández, Jaime, 952
Hess, Jay L., 355

Hildreth, Stephen W., 589
Hill, Harry R., 589, 683
Hilsenrath, Peter E., 809
Hirai, Yasuo, 109
Ho, Chau-Hung, 36
Ho, Chi-Kuan, 36
Hoff, Elise R., 916
Hoffman, Joel M., 851
Hollingsworth, Michael A., 791
Hornick, Jason L., 188
Horvath, Eva, 478
Hotchkiss, Erin C., 819
House, Nancy, 574
Hoyer, James D., 857
Hruban, Ralph H., 755, 791
Hsi, Eric D., 574
Hsu, Hui-Chi, 36
Hsu, Su-Ming, 627
Hu, Mingxiu, 851
Huang, Chang-Yi, 36
Huh, Yang O., 644
Humphrey, Peter A., 552
Huntsman, David G., 723
Hurley, Leo B., 96

I

Iacocca, Mary V., 729
Ichikawa, Tsuwa, 546
Ichinoe, Masaaki, 908
Ike, David, 306
International Workshop on
Leukemia Karyotype and
Prior Therapy, 306
Ito, Masafumi, 283

J

Jacob, Christine, 606
Jaeger, Ulrich, 380
Jarboe, Elke A., 738
Jasani, Bharat, 81
Jenkner, Alessandro, 484
Jespersen, Jorgen, 892
Jiménez, Ana María, 952
Jiménez, Antonio, 952
Jiménez-Garófano, Carmen, 952
Jiroutek, Michael R., 751
Joan-Figuerola, Alejandro, 126
Johnson, Leonard B., 771
Jones, Claudia, 880
Joste, Nancy E., 96
Jougon, Jacques, 51

K

Kamidono, Sadao, 401
Kansal, Rina, 29
Karandikar, Nitin J., 819
Katz, Ruth L., 644
Katzmann, Jerry A., 857

Keller, Amy, 74
Kent, Sara A., 698
Keown, Michelle, 892
Kestin, Larry L., 927
Khatib, Riad, 771
Kiely, Sharon, 524
King, David, 615
Kinnula, Vuokko L., 132
Kirchner, Thomas, 368
Knobloch, Jürgen, 597
Koch, Sandra, 900
Koga, Takaomi, 464
Koistinen, Pirjo, 132
Koplovic, Juri, 225
Kopp, Jeffrey B., 922
Kovacs, Kalman, 478
Krane, Jeffrey F., 96
Kratz, Alexander, S104
Kristensen, Gunnar B., 225
Kroft, Steven H., 291, 819
Kroll, Martin H., 74
Kubier, Patty, 194

L

Lai, Raymond, 252, 716
Lakari, Essi, 132
Lampert, Irvin, 360
Lassman, Charles R., 424
LeBlanc, Victoria, 783
Lechner, Klaus, 380
Lecompte, Thomas, 606
Lee, Benita, 574
Lee, Benjamin H., 745
Lee, Kenneth R., 96
Lee, Seung-Sok, 368
Lee, Wei-Hsiang, 627
Lee, Yuan-Ming, 36
Lerner, Henrique, 392
Lesack, David W., 723
Lesesve, Jean-François, 606
Li, Chi-Cheng, 627
Liang, Xiayuan, 276
Libow, Lester F., 766
Lillemoe, Tamera J., 935
Lin, Chung-Wu, 627
Lin, Tsun-Mei, 429
Lin, Wai F., 437
Listinsky, Catherine M., S76
Litwin, Christine M., 589
Liu, Katharine, 880
Liu, Wu-Tse, 36
Liu, Yulin, 567
LiVolsi, Virginia A., 143, 199
Llombart-Bosch, Antonio, 126
Lobo, Francesca, 783
Long, Michael, 41

M

Macpherson, Nicol, 574
Magnani, Corrado, 90

Mahood, Laura K., 534, 567
Makar, Robert S., S95
Mann, Risa B., 259
Manoni, Fabio, 316
Manos, M. Michele, 96
Mariette, Xavier, 210
Marino, Mirella, 368
Marsh, William L., Jr., 419
Marshall, C. Jay, 457
Martinez, Alvaro A., 927
Martins, Thomas B., 589
Matsen, John M., 691
Matsuo, Yoshio, 464
McCarthy, Denis M., 755
McCormick, Stanley R., 935
McEnery, Kevin W., S3
McGlennen, Ronald C., 582
McGrath, Cindy M., S62
McKenna, Robert W., 291, 819
McKinley, Mark J., 81
Medeiros, L. Jeffrey, 252, 574, 644, 716
Meduri, Geri, 210
Meech, Sandra J., 276
Meikle, Wayne, 683
Menke, David M., 268
Merlio, Jean P., 51
Meyerson, Howard, 651
Miettinen, Markku, 183
Milgrom, Edwin, 210
Miller, Keith D., 81
Miller, Kirk D., 922
Miller, Rodney T., 194
Mitomi, Hiroyuki, 908
Mitterbauer, Gerlinde, 380
Mohamed, Anwar N., 41
Mojtahedzadeh, Sepideh, 464
Mollo, Franco, 90
Monahan, Dennis, 683
Monteagudo, Carlos, 126
Morgan, John M., 81
Müller-Hermelink, Hans Konrad, 368
Myles, Jonathan L., 916

N

Nagendra, Sanjai, 651
Najjar, Laura K., 597
Nakagawa, Atsuko, 283
Nakamura, Takatoshi, 908
Nakashima, Yutaka, 464
Nash, Jason W., 419
Natkunam, Yasodha, 636
Navabi, Hossein, 81
Navarro, Samuel, 126
Neelon, Brian H., 729
Nesland, Jahn M., 225
Ng, Irene O.L., 411
Niemann, Theodore, 419
Nogueira, Meri B., 392
Nolte, Kurt B., 205

Nomededéu, Josep F., 864
 Norman, Geoff, 783
 Nose, Fusako, 546

O

Ödel, Michael, 900
 Odom, Lorrie F., 276
 Offerhaus, G. Johan A., 117,
 755
 Ohtani, Yoshimasa, 908
 Okada, Hiroshi, 401
 Okayasu, Isao, 546, 908
 Olavarria, Eduardo, 360
 Ollila, David W., 729
 Onciu, Mihaela, 252, 644, 716
 Orfao, Alberto, 952
 Orlicky, David, 738
 Osterheld, Maria-Chiara, 451
 Ostrowski, Mary L., S3
 Ott, German, 368
 Ott, Michaela, 368
 Owonikoko, Taofeek, 558

P

Pääkkö, Paavo, 132
 Padmore, Ruth F., 29
 Palutke, Margarita, 41
 Parker, Robin L., 723
 Parker, Sally, 360
 Parrens, Marie, 51
 Parwaresch, Reza, 268
 Peghini, Pietro Edmondo, 237
 Penz, Connie S., 857
 Perea, Granada, 864
 Perry, Deborah, 683
 Peterson, Ellena M., 152
 Peterson, LoAnn C., 698, 844
 Petris, Maria Grazia, 871
 Piazza, Anna, 316
 Pickering, Jerry W., 589
 Pinkus, Geraldine S., 745
 Pinkus, Jack L., 745
 Pinnar, Nat E., 751
 Pitman, Martha B., 217
 Piva, Elisa, 621
 Plebani, Mario, 621
 Poller, Leon, 892
 Poon, Ronnie T.P., 411
 Popplewell, Leslie, 306
 Porter, Christopher R., S36
 Pradella, Marco, 316
 Prayson, Richard A., 776
 Procop, Gary W., 916
 Prysak, Michael, 771
 Pysker, Theodore J., 683

R

Raab, Stephen S., 524, 534, 567
 Raboni, Sonia M., 392

Rader, Anne E., 755
 Rakoz, Christiane K., 41
 Ramzy, Ibrahim, 444
 Ravà, Lucilla, 484
 Rea, Thomas D., 156
 Rees, Martin, 558
 Rego-Araujo, Joana, 864
 Reich, Reuven, 225
 Reinartz, John, 935
 Renshaw, Andrew A., 19, 751, 797
 Rhodes, Anthony, 81
 Riddell, Robert, 783
 Risberg, Bjørn, 225
 Rizzotti, Paolo, 316
 Ro, Jae Y., 552
 Roberts, William, 683
 Rogers, Beverly B., 683
 Román, Alejandro, 952
 Rosenthal, Nancy, 651
 Ross, Catherine, 783
 Ross, Charles W., 29, 301
 Rotondo, Fabio, 478
 Roux, Sophie, 210
 Rowe, Leslie R., 457
 Rowley, Janet D., 306
 Rubiol, Enriqueta, 864
 Rüdiger, Thomas, 368
 Ruoff, Kathryn, S116
 Russo, Joan E., 156
 Rutledge, Joe, 683
 Ryder, John W., 276

S

Sabatino, Deborah, 783
 Saga, Shinsuke, 283
 Said, Jonathan, 268
 Säily, Marjaana, 132
 Salama, Samih, 783
 Sansbury, Leah B., 729
 Sarbia, Mario, 558
 Schaumburg-Lever, Gundula, 597
 Scheithauer, Bernd W., 478
 Scherr, Doris, 62
 Schmidt-Gayk, Heinrich, 900
 Schneider, Barbara, 380
 Schnitzer, Bertram, 29, 301
 Schrauth, John, 935
 Schroder, M. Carl, 589
 Schwarzing, Ilse, 380
 Schweiger, Jeanne, 683
 Scioscia, Eugene, Jr., 524
 Shek, Tony W.H., 411
 Shema, Sarah J., 259
 Sheridan, Brian, 783
 Sherman, Mark E., 96
 Shi, Chen, 74
 Shiach, Caroline, 892
 Shiao, Amy, 152
 Shieh, Wun-Ju, 205
 Shigei, Janet, 152
 Shroyer, Kenneth R., 738

Shuhaibar, Hafez, 783
 Sierra, Jorge, 864
 Silverman, Jan F., 567
 Simonitsch, Ingrid, 380
 Singleton, Timothy P., 29, 301
 Skallerud, Glenda, 651
 Slovak, Marilyn L., 306
 Smith, Terry, 716
 Smoller, Bruce R., 276
 So, Chi-chiu, 246
 Soini, Ylermi, 132
 Starostik, Petr, 368
 Stitzenberg, Karyn B., 729
 Stoler, Mark H., 520, 944
 Sturgis, Charles D., 534, 567
 Su, Wei-Juin, 36
 Subirá, Dolores, 952
 Sueishi, Katsuo, 464
 Sugimachi, Keizo, 464
 Sugio, Kenji, 464
 Sugiyama, Kazuo, 109
 Sugiyama, Yuko, 109
 Sundwall, David, 691
 Swanson, Paul E., 7
 Swartz, Michael J., 791

T

Tallmann, Martin S., 844
 Tamboli, Pheroze, 552
 Tan, Grace, 152
 Temporin, Valeria, 871
 ten Kate, Fiebo J.W., 117
 Thalhammer-Scherrer, Renate,
 380
 Thome, Stephan D., 268
 Thompson, L. Chesney, 738
 Tiemann, Markus, 268
 Tillema, Veronica, 62
 Toffolo, Lucia, 871
 Tonutti, Elio, 316
 Torrecilha, Vivian T.G., 392
 Toth, Thomas L., S95
 Tozzoli, Renato, 316
 Tripodi, Armando, 892
 Tropé, Claes G., 225
 Trost, Donald C., 851
 Truong, Luan D., 444
 Tsuchiya, Luine R.V., 392
 Tsuji, Takumi, 401
 Tubbs, Raymond R., 916
 Tytgat, Guido N.J., 117

U

Ubeda, Josep, 864
 Uzieblo, Alison, 541

V

van den Besselaar, Anton M. H.
 P., 892

van de Putte, Gregg, 225
 van Felius, Lonneke, 117
 van Heek, Tjarda, 755
 van Lanschot, Jan B., 117
 van Sandick, Johanna W.,
 117
 Variakojis, Daina, 698
 Varshney, Grish C., 791
 Vega, Francisco, 252
 Velly, Jean-François, 51
 Vergilio, JoAnne, 199
 Vicini, Frank A., 927
 Vidal, Sergio, 478
 Villalta, Danilo, 316
 Vo, Trieu D., 41

W

Wahed, Amer, 325
 Walch, Stefan, 900
 Wang, Lan, S109
 Wang, Li Juan, 57
 Wang, Sheng-Yuan, 36
 Warnke, Roger A., 636
 Weiss, Ronald L., 683, 691
 Wells, Alice, 325
 West, Robert B., 636
 Wick, Mark R., 7
 Wick, Myra J., 582
 Widness, John A., 809
 Wilder, Anna Maria, 922
 Wilentz, Robb E., 755, 791
 Williams, David C., Jr., 880
 Williams, Sara A., 276
 Wilson, James S., 74
 Witte, Deborah, 444
 Wong, Kit-fai, 246
 Woronoff-Dashkoff, Kristine
 P., 582
 Wu, Mark Li-cheng, 424
 Wu, Shing-Mian, 429

X

Xu, Yin, 291

Y

Yang, Bin, 574
 Yang, Ching-Fen, 36
 Yeh, I-Tien, S26
 Yeo, Charles J., 791
 Yonemitsu, Yoshikazu, 464
 Yoshino, Ichiro, 464
 Young, Mary L., 751

Z

Zaiac, Michael, 360
 Zaki, Sherif R., 205
 Zettl, Andreas, 368
 Zinsmeister, Alan R., 802

title index

Index of Issues: January, pp 1-176; February, pp 177-344; March, pp 345-504; April, pp 505-672; May, pp 673-832; June, pp 833-992. Page numbers beginning with S denote articles in the June Pathology Patterns Reviews.

ANATOMIC PATHOLOGY

Original Articles

- Assessment of Interlaboratory Variation in the Immunohistochemical Determination of Estrogen Receptor Status Using a Breast Cancer Tissue Microarray
Robin L. Parker, David G. Huntsman, David W. Lesack, James B. Cupples, Dennis R. Grant, Majid Akbari, and C. Blake Gilks, 723
- Attribution of Lung Cancers to Asbestos Exposure, The: A Pathologic Study of 924 Unselected Cases
Franco Mollo, Corrado Magnani, Patrizia Bo, Paola Burlo, and Maurizio Cravello, 90
- Atypical Glandular Cells of Undetermined Significance (AGUS): Interobserver Reproducibility in Cervical Smears and Corresponding Thin-Layer Preparations
Kenneth R. Lee, Teresa M. Darragh, Nancy E. Joste, Jeffrey F. Krane, Mark E. Sherman, Leo B. Hurley, Elizabeth M. Allred, and M. Michele Manos, 96
- beta-Catenin Expression and Its Association With Prognostic Factors in Adenocarcinoma Developed in Barrett Esophagus
Maria-Chiara Osterheld, Yan-Song Bian, Fred T. Bosman, Jean Benhattar, and Charlotte Fontollet, 451
- Can Technology Expedite the Cervical Cancer Screening Process? A Hong Kong Experience Using the AutoPap Primary Screening System With Location-Guided Screening Capability
Alexander R. Chang, Wai F. Lin, Andrina Chang, and King S. Chong, 437
- Caveolin-1 Expression in Ovarian Carcinoma Is MDR1 Independent
Ben Davidson, Iris Goldberg, Vered Givant-Horwitz, Jahn M. Nesland, Aasmund Berner, Magne Bryne, Bjørn Risberg, Juri Kopolovic, Gunnar B. Kristensen, Claes G. Tropé, Gregg van de Putte, and Reuven Reich, 225
- CD99 Immunoreactivity in Atypical Fibroxanthoma: A Common Feature of Diagnostic Value
Carlos Monteagudo, Luis Calduch, Samuel Navarro, Alejandro Joan-Figueroa, and Antonio Llombart-Bosch, 126
- Clinicopathologic and Prognostic Significance of the Histologic Activity of Noncancerous Liver Tissue in Hepatitis B Virus-Associated Hepatocellular Carcinoma
Irene O.L. Ng, Ronnie T.P. Poon, Tony W.H. Shek, and Sheung T. Fan, 411

Cytohistic Discrepancies: A Means to Improve Pathology Practice and Patient Outcomes

- Karen M. Clary, Jan F. Silverman, Yulin Liu, Charles D. Sturgis, Dana M. Grzybicki, Laura K. Mahood, and Stephen S. Raab*, 567
- Cytokeratin Immunohistochemical Validation of the Sentinel Node Hypothesis in Patients With Breast Cancer
Karyn B. Stitzenberg, Benjamin F. Calvo, Mary V. Iacocca, Brian H. Neelon, Leah B. Sansbury, Lynn G. Dressler, and David W. Ollila, 729
- Cytologic Features of Clear Cell Sarcoma (Malignant Melanoma) of Soft Parts: A Study of Fine-Needle Aspirates and Exfoliative Specimens
Andrew J. Creager, Martha B. Pitman, and Kim R. Geisinger, 217
- Deeper Examination of Negative Colorectal Biopsies
Mark Li-cheng Wu, Sarah M. Dry, and Charles R. Lassman, 424
- Expression of Cytokeratins 7 and 20 in Ovarian Neoplasia
Helen P. Cathro and Mark H. Stoler, 944
- Failure to Detect Human Papillomavirus DNA in Malignant Epithelial Neoplasms of Conjunctiva by Polymerase Chain Reaction
Hock-Liew Eng, Tsun-Mei Lin, Shiao-Yen Chen, Shing-Mian Wu, and Wei-jen Chen, 429
- Flow Cytometric Analysis of Cerebrospinal Fluid Samples and Its Usefulness in Routine Clinical Practice
Dolores Subirá, Susana Castañón, Esther Aceituno, Jaime Hernández, Carmen Jiménez-Garófano, Antonio Jiménez, Ana María Jiménez, Alejandro Román, and Alberto Orfao, 952
- Formalin-Fixed, Paraffin-Processed Cell Line Standard for Quality Control of Immunohistochemical Assay of HER-2/neu Expression in Breast Cancer, A
Anthony Rhodes, Bharat Jasani, Jérôme Couturier, Mark J. McKinley, John M. Morgan, Andrew R. Dodson, Hossein Navabi, Keith D. Miller, and André J. Balaton, 81
- HER2 Assessment by Immunohistochemical Analysis and Fluorescence In Situ Hybridization: Comparison of HercepTest and PathVysion Commercial Assays
Stanley R. McCormick, Tamera J. Lillemoe, Janet Beneke, John Schrauth, and John Reinartz, 935
- HER2/neu Amplification in Breast Cancer: Stratification by Tumor Type and Grade
Elise R. Hoff, Raymond R. Tubbs, Jonathan L. Myles, and Gary W. Procop, 916

- High Apoptotic Activity and Low Epithelial Cell Proliferation With Underexpression of p21^{WAF1/CIP1} and p27^{Kip1} of Mucinous Carcinomas of the Colorectum: Comparison With Well-Differentiated Type
Fumiyuki Akino, Hiroyuki Mitomi, Takatoshi Nakamura, Yoshimasa Ohtani, Masaaki Ichinoe, and Isao Okayasu, 908
- Immunocytochemical Localization of Mast Cells in Lymphocytic Hypophysitis
Sergio Vidal, Fabio Rotondo, Eva Horvath, Kalman Kovacs, and Bernd W. Scheithauer, 478
- Immunohistochemical Detection of *Yersinia pestis* in Formalin-Fixed, Paraffin-Embedded Tissue
Jeannette Guarner, Win-Ju Shieh, Patricia W. Greer, Jean-Marc Gabastou, May Chu, Edward Hayes, Kurt B. Nolte, and Sherif R. Zaki, 205
- Immunohistochemical Localization of Survivin in Benign Cervical Mucosa, Cervical Dysplasia, and Invasive Squamous Cell Carcinoma
Michael Frost, Elke A. Jarboe, David Orlicky, Roberto Gianani, L. Chesney Thompson, Takayuki Enomoto, and Kenneth R. Shroyer, 738
- Immunohistochemical Staining for KIT (CD117) in Soft Tissue Sarcomas Is Very Limited in Distribution
Jason L. Hornick and Christopher D.M. Fletcher, 188
- Immunophenotypic Characterization of 225 Prostate Adenocarcinomas With Intermediate or High Gleason Scores
Neal S. Goldstein, 471
- Inducible Nitric Oxide Synthase, but Not Xanthine Oxidase, Is Highly Expressed in Interstitial Pneumonias and Granulomatous Diseases of Human Lung
Essi Lakari, Ylermi Soini, Marjaana Säily, Pirjo Koistinen, Paavo Pääkkö, and Vuokko L. Kinnula, 132
- Influence of Percentage of Preradiation Needle Biopsies With Adenocarcinoma and Total Radiation Dose on the Pathologic Response of Unfavorable Prostate Adenocarcinoma, The
Neal S. Goldstein, Larry L. Kestin, Frank A. Vicini, and Alvaro A. Martinez, 927
- Intestinal Metaplasia of the Esophagus or Esophagogastric Junction: Evidence of Distinct Clinical, Pathologic, and Histochemical Staining Features
Johanna W. van Sandick, J. Jan B. van Lanschot, Lonneke van Felijs, Jelle Haringsma, Guido N.J. Tytgat, Wim Dekker, Paul Drillenburgh, G. Johan A. Offerhaus, and Fiebo J.W. ten Kate, 117
- Intratatumoral Genetic Heterogeneity in Barrett Adenocarcinoma
Taofeek Owonikoko, Martin Rees, Helmut E. Gabbert, and Mario Sarbia, 558
- K-ras, p53, and DPC4 (MAD4) Alterations in Fine-Needle Aspirates of the Pancreas: A Molecular Panel Correlates With and Supplements Cytologic Diagnosis
Tjarda van Heek, Anne E. Rader, G. Johan A. Offerhaus, Denis M. McCarthy, Michael Goggins, Ralph H. Hruban, and Robb E. Wilentz, 755
- Kuttner Tumor of the Submandibular Gland: Fine-Needle Aspiration Cytologic Findings of Seven Cases
Wah Cheuk and John K.C. Chan, 103
- Lichenoid Tissue Reaction in Malignant Melanoma: A Potential Diagnostic Pitfall
Scott R. Dalton, Matt A. Baptista, Lester F. Libow, and Dirk M. Elston, 766
- Lobular Neoplasia in Breast Core Needle Biopsy Specimens Is Not Associated With an Increased Risk of Ductal Carcinoma In Situ or Invasive Carcinoma
Andrew A. Renshaw, Norberto Cartagena, Robert P. Derhagopian, and Edwin W. Gould, 797
- Lung Adenocarcinoma With Bronchioloalveolar Carcinoma Component Is Frequently Associated With Foci of High-Grade Atypical Adenomatous Hyperplasia
Takaomi Koga, Shuichi Hashimoto, Kenji Sugio, Yoshikazu Yonemitsu, Yutaka Nakashima, Ichiro Yoshino, Yoshio Matsuo, Sepideh Mojtabadeh, Keizo Sugimachi, and Katsuo Sueishi, 464
- Microdissection Is Essential for Gene Expression Profiling of Clinically Resected Cancer Tissues
Yuko Sugiyama, Kazuo Sugiyama, Yasuo Hirai, Futoshi Akiyama, and Katsuhiko Hasumi, 109
- Morphologic Spectrum of Metastatic Prostatic Adenocarcinoma to the Lung, The: Special Emphasis on Histologic Features Overlapping With Other Pulmonary Neoplasms
John N. Copeland, Mahul B. Amin, Peter A. Humphrey, Pheroze Tamboli, Jae Y. Ro, and Anthony A. Gal, 552
- MUC4 Expression Increases Progressively in Pancreatic Intraepithelial Neoplasia
Michael J. Swartz, Surinder K. Batra, Grish C. Varshney, Michael A. Hollingsworth, Charles J. Yeo, John L. Cameron, Robb E. Wilentz, Ralph H. Hruban, and Pedram Argani, 791
- Nephroblastoma: Multidrug-Resistance P-Glycoprotein Expression in Tumor Cells and Intratumoral Capillary Endothelial Cells
Francesca Diomedei Camassei, Giuseppe Arancia, Maurizio Cianfriglia, Cesare Bosman, Paola Francalanci, Lucilla Ravà, Alessandro Jenkner, Alberto Donfrancesco, and Renata Boldrini, 484
- Papanicolaou Tests Diagnosed as Atypical by a Cytotechnologist and Downgraded to Benign by a Pathologist: A Measure of Laboratory Quality
Jennifer L. Condel, Laura K. Mahood, Dana M. Grzybicki, Charles D. Sturgis, and Stephen S. Raab, 534
- Primary Cutaneous Diffuse Large B-Cell Lymphoma: A Clinicopathologic Study of 15 Cases
Thomas A. Hembury, Benita Lee, Randy D. Gascoyne, Nicol Macpherson, Bin Yang, Nancy House, L. Jeffrey Medeiros, and Eric D. Hsi, 574
- Quantifying the Value of In-house Consultation in Surgical Pathology
Andrew A. Renshaw, Nat E. Pinnar, Michael R. Jiroutek, and Mary L. Young, 751
- RANK (Receptor Activator of Nuclear Factor kappa B) and RANK Ligand Are Expressed in Giant Cell Tumors of Bone
Sophie Roux, Larbi Amazit, Geri Meduri, Anne Guiochon-Mantel, Edwin Milgrom, and Xavier Mariette, 210
- Rasmussen Encephalitis: A Clinicopathologic and Immunohistochemical Study of Seven Patients
Richard A. Prayson and John L. Frater, 776
- Spindle Cell Metaplasia of the Thyroid Arising in Association With Papillary Carcinoma and Follicular Adenoma
JoAnne Vergilio, Zubair W. Baloch, and Virginia A. LiVolsi, 199

Telepathology for Routine Light Microscopic and Frozen Section Diagnosis

Katherine Chorneyko, Ronald Giesler, Deborah Sabatino, Catherine Ross, Francesca Lobo, Hafez Shuhaibar, Vicky Chen, Leela Elavathil, Franco Denardi, Saira Ansari, Samih Salama, Victoria LeBlanc, Geoff Norman, Brian Sheridan, and Robert Riddell, 783

Tissue Protection Immunohistochemistry: A Useful Adjunct in the Interpretation of Prostate Biopsy Specimens and Other Selected Cases in Which Immunostains Are Needed on Minute Lesions

Patty Kubier and Rodney T. Miller, 194

To Step or Not to Step: An Approach to Clinically Diagnosed Polyps With No Initial Pathologic Finding

Jason W. Nash, Theodore Niemann, William L. Marsh, Jr, and Wendy L. Frankel, 419

Transitional Cell Carcinoma of the Renal Pelvis: The Diagnostic Role of Pelvic Washings

Deborah Witte, Luan D. Truong, and Ibrahim Ramzy, 444

Unsatisfactory ThinPrep Pap Test. The: Missed Opportunity for Disease Detection?

Joel S. Bentz, Leslie R. Rowe, Evelyn V. Gopez, and C. Jay Marshall, 457

Up-Regulation of Cyclooxygenase-2 Expression in Lymphocytic Thyroiditis and Thyroid Tumors: Significant Correlation With Inducible Nitric Oxide Synthase

Fusako Nose, Tsuwa Ichikawa, Mutsunori Fujiwara, and Isao Okayasu, 546

Urinary Cytology Associated With Human Polyomavirus and Indinavir Therapy in HIV-Infected Patients

Armando C. Filie, Anna Maria Wilder, Keith Brosky, Jeffrey B. Kopp, Kirk D. Miller, and Andrea Abati, 922

Uterine Granulomas: Clinical and Pathologic Features

Mohammad O. Almoujahed, Laurence E. Briski, Michael Prysak, Leonard B. Johnson, and Riad Khatib, 771

Willingness to Pay for New Papanicolaou Test Technologies

Stephen S. Raab, Dana Marie Grzybicki, Alison R. Hart, Sharon Kiely, Carey Andrew-JaJa, and Eugene Scioscia, Jr, 524

WT1, Estrogen Receptor, and Progesterone Receptor as Markers for Breast or Ovarian Primary Sites in Metastatic Adenocarcinoma to Body Fluids

Benjamin H. Lee, Jonathan L. Hecht, Jack L. Pinkus, and Geraldine S. Pinkus, 745

WT1 Immunoreactivity in Uterine Papillary Serous Carcinomas Is Different From Ovarian Serous Carcinomas

Neal S. Goldstein and Alison Uzieblo, 541

Review Article

Follicular-Patterned Lesions of the Thyroid: The Bane of the Pathologist

Zubair W. Baloch and Virginia A. LiVolsi, 143

CLINICAL CHEMISTRY

Original Articles

Automated Sperm Concentration Analysis With a New Flow Cytometry-Based Device, S-FCM

Takumi Tsuji, Hiroshi Okada, Masato Fujisawa, Yukio Hamaguchi, and Sadao Kamidono, 401

Carisoprodol: An Unrecognized Drug of Abuse

David N. Bailey and John R. Briggs, 396

Cost Analysis of a Neonatal Point-of-Care Monitor

Joseli A. Alves-Dunkerson, Peter E. Hilsenrath, Gretchen A. Cress, and John A. Widness, 809

Diurnal Variation of Serum Iron, Iron-Binding Capacity, Transferrin Saturation, and Ferritin Levels

Jane C. Dale, Mary F. Burritt, and Alan R. Zinsmeister, 802

Rapid Spot Tests for Detecting the Presence of Adulterants in Urine Specimens Submitted for Drug Testing

Amitava Dasgupta, Amer Wahed, and Alice Wells, 325

Review Article

Guidelines for the Laboratory Use of Autoantibody Tests in the Diagnosis and Monitoring of Autoimmune Rheumatic Diseases

Renato Tozzoli, Nicola Bizzaro, Elio Tonutti, Danilo Villalta, Danila Bassetti, Fabio Manoni, Anna Piazza, Marco Pradella, and Paolo Rizzotti, 316

COAGULATION AND TRANSFUSION MEDICINE

Original Articles

Development of a High-Pressure Liquid Chromatography Method for Diagnosis of Heparin-Induced Thrombocytopenia

Sandra Koch, Job Harenberg, Michael Ödel, Heinrich Schmidt-Gayk, Stefan Walch, and Uwe Budde, 900

Minimum Numbers of Fresh Whole Blood and Plasma Samples From Patients and Healthy Subjects for ISI Calibration of CoaguChek and RapidPointCoag Monitors

Leon Poller, Michelle Keown, Nikhil Chauhan, Anton M.H.P. van den Besselaar, Armando Tripodi, Jorgen Jespersen, and Caroline Shiach, 892

"Percent Correction" Formula for Evaluation of Mixing Studies. A

Sheng-hsiung Chang, Veronica Tillema, and Doris Scherr, 62

Point-of-Care Testing for Prothrombin Time, but Not Activated Partial Thromboplastin Time, Correlates With Laboratory Methods in Patients Receiving Aprotinin or epsilon-Aminocaproic Acid While Undergoing Cardiac Surgery

Tak-Shun Choi, Philip E. Greilich, Chen Shi, James S. Wilson, Amy Keller, and Martin H. Kroll, 74

EDITORIALS

Advent of Targeted Therapeutics and Implications for Pathologists. The

Jay L. Hess, 355

Advocating for Patient Preference in Cervical Cytology Screening

Diane D. Davey, 517

Criteria for Attributing Lung Cancer to Asbestos Exposure

Philip T. Cagle, 9

New Challenges in the Identification of Gastrointestinal Stromal Tumors and Other Possible KIT-Driven Tumors

Markku Miettinen, 183

Strict Criteria Should Be Applied in the Diagnosis of Encapsulated Follicular Variant of Papillary Thyroid Carcinoma

John K.C. Chan, 16

Targeted Controls in Clinical Immunohistochemistry: A Useful Approach to Quality Assurance

Mark R. Wick and Paul E. Swanson, 7

Toward Objective Quality Assurance: The Eyes Don't Have It

Mark H. Stoler, 520

Why There Is the Tendency to "Overdiagnose" the Follicular Variant of Papillary Thyroid Carcinoma

Andrew A. Renshaw and Edwin W. Gould, 19

HEMATOPATHOLOGY

Original Articles

Acute Lymphoblastic Leukemia in Elderly Patients: The

Philadelphia Chromosome May Not Be a Significant Adverse Prognostic Factor

Mihaela Onciu, Carlos Bueso-Ramos, L. Jeffrey Medeiros, Greg Ball, Terry Smith, and Raymond Lai, 716

Analysis of Cyclin D1 Expression by Quantitative Real-Time Reverse Transcription-Polymerase Chain Reaction in the Diagnosis of Mantle Cell Lymphoma

Pietro Edmondo Peghini and Jörg Fehr, 237

Analysis of the Human Herpesvirus 8 (HHV-8) Genome and HHV-8 vIL-6 Expression in Archival Cases of Castleman Disease at Low Risk for HIV Infection

David M. Menke, Amy Chadburn, Ethel Cesarman, Eric Green, James Berenson, Jonathan Said, Markus Tiemann, Reza Parwaresch, and Stephan D. Thome, 268

Assessment of CD10 in the Diagnosis of Small B-Cell Lymphomas: A Multiparameter Flow Cytometric Study

Yin Xu, Robert W. McKenna, and Steven H. Kroft, 291

Association of Expression of CD44v6 With Systemic Anaplastic Large Cell Lymphoma: Comparison With Primary Cutaneous Anaplastic Large Cell Lymphoma

Xiayuan Liang, Loren E. Golitz, Bruce R. Smoller, Sandra J. Meech, Lorrie F. Odom, Sara A. Williams, and John W. Ryder, 276

Blastic Natural Killer Cell Lymphoma/Leukemia: A Report of Seven Cases

Michael G. Bayerl, Christiane K. Rakoczy, Anwar N. Mohamed, Trieu D. Vo, Michael Long, David Eilender, and Margarita Palutke, 41

Bone Marrow Samples From Patients With Aplastic Anemia Are Not Infected With Parvovirus B19 and *Mycobacterium tuberculosis*

Hui-Chi Hsu, Yuan-Ming Lee, Wei-Juin Su, Chang-Yi Huang, Ching-Fen Yang, Chi-Kuan Ho, Chau-Hung Ho, Sheng-Yuan Wang, and Wu-Tse Liu, 36

Clonal Heterogeneity Assessed by Flow Cytometry in B-Cell Lymphomas Arising From Germinal Centers

Mar Bellido, Enriqueta Rubiol, Josep Ubeda, Camino Estivill, Granada Perea, Joana Rego-Araujo, Anna Aventin, Ramón Bordes, Jorge Sierra, and Josep F. Nomdedéu, 864

Comparative Study of Marginal Zone Lymphoma Involving Bone Marrow

Sara A. Kent, Daina Variakojis, and LoAnn C. Peterson, 698

Discrepancies in the Immunophenotype of Lymphoma Cells in Samples Obtained Simultaneously From Different Anatomic Sites

Mihaela Onciu, Su G. Berrak, L. Jeffrey Medeiros, Ruth L. Katz, and Yang O. Huh, 644

Epstein-Barr Virus-Associated B-Cell Lymphoproliferative Disorders in Angioimmunoblastic T-Cell Lymphoma and Peripheral T-Cell Lymphoma, Unspecified

Andreas Zettl, Seung-Sok Lee, Thomas Rüdiger, Petr Starostik, Mirella Marino, Thomas Kirchner, Michaela Ott, Hans Konrad Müller-Hermelink, and German Ott, 368

Erythrocyte Sedimentation Rate: Use of Fresh Blood for Quality Control

Mario Plebani and Elisa Piva, 621

Fatal Cytotoxic T-Cell Proliferation in Chronic Active Epstein-Barr Virus Infection in Childhood

Atsuko Nakagawa, Masafumi Ito, and Shinsuke Saga, 283

Fine-Needle Aspiration in Non-Hodgkin Lymphoma: Evaluation of Cell Size by Cytomorphology and Flow Cytometry

Jerald Z. Gong, David C. Williams, Jr, Katharine Liu, and Claudia Jones, 880

Five Fully Automated Methods for Performing Immature Reticulocyte Fraction: Comparison in Diagnosis of Bone Marrow Aplasia

Mauro Buttarello, Pietro Bulian, Giorgio Farina, Maria Grazia Petris, Valeria Temporin, and Lucia Toffolo, 871

Flow Cytometric Immunophenotyping in Posttransplant Lymphoproliferative Disorders

Cherie H. Dunphy, Laura J. Gardner, Leonard E. Grosso, and H. Lance Evans, 24

Flow Cytometric Measurement of Hemoglobin F in RBCs:

Diagnostic Usefulness in the Distinction of Hereditary Persistence of Fetal Hemoglobin (HPFH) and Hemoglobin S-HPFH From Other Conditions With Elevated Levels of Hemoglobin F

James D. Hoyer, Connie S. Penz, Virgil F. Fairbanks, Curtis A. Hanson, and Jerry A. Katzmman, 857

Follicular Hodgkin Lymphoma: A Histopathologic Study

Rina Kansal, Timothy P. Singleton, Charles W. Ross, William G. Finn, Ruth F. Padmore, and Bertram Schnitzer, 29

Guidelines for Interpreting EBER In Situ Hybridization and LMP1 Immunohistochemical Tests for Detecting Epstein-Barr Virus in Hodgkin Lymphoma

Margaret L. Gulley, Sally L. Glaser, Fiona E. Craig, Michael Borowitz, Risa B. Mann, Sarah J. Shema, and Richard F. Ambinder, 259

Immunophenotype of 325 Adult Acute Leukemias, The:

Relationship to Morphologic and Molecular Classification and Proposal for a Minimal Screening Program Highly Predictive for Lineage Discrimination

Renate Thalhammer-Scherrer, Gerlinde Mitterbauer, Ingrid Simonitsch, Ulrich Jaeger, Klaus Lechner, Barbara Schneider, Christa Fonatsch, and Ilse Schwarzingner, 380

Immunophenotypic Variability of B-Cell Non-Hodgkin Lymphoma:

A Retrospective Study of Cases Analyzed by Flow Cytometry
Carolina Echeverri, Stephen Fisher, David King, and Fiona E. Craig, 615

- Laboratory Identification of Cryoglobulinemia From Automated Blood Cell Counts, Fresh Blood Samples, and Blood Films
Anne Fohlen-Walter, Christine Jacob, Thomas Lecompte, and Jean-François Lesesve, 606
- Leukemias Resembling Acute Promyelocytic Leukemia, Microgranular Variant
Sanjai Nagendra, Howard Meyerson, Glenda Skallerud, and Nancy Rosenthal, 651
- Mucosa-Associated Lymphoid Tissue of the Thymus: Hyperplasia vs Lymphoma
Marie Parrens, Pierre Dubus, Marie Danjoux, Jacques Jougon, Pierre Brousset, Jean-François Velly, Antoine de Mascarel, and Jean P. Merlio, 51
- Neutrophil-Rich Ki-1-Positive Anaplastic Large Cell Lymphoma: A Study by Fine-Needle Aspiration Biopsy
Andrew J. Creager, Kim R. Geisinger, and Simon Bergman, 709
- Nucleolated Variant of Mantle Cell Lymphoma With Leukemic Manifestations Mimicking Polymorphocytic Leukemia
Kit-fai Wong, Chi-chiu So, and John K.C. Chan, 246
- Precursor T-Cell Acute Lymphoblastic Leukemia in Adults: Age-Related Immunophenotypic, Cytogenetic, and Molecular Subsets
Mihaela Onciu, Raymond Lai, Francisco Vega, Carlos Bueso-Ramos, and L. Jeffrey Medeiros, 252
- Probability-Based Construction of Reference Ranges for Ratios of Log-Gaussian Analytes: An Example From Automated Leukocyte Counts
Donald C. Trost, Mingxiu Hu, Allison G. Brailey, and Joel M. Hoffman, 851
- Spontaneous Regression of Kikuchi Lymphadenopathy With Oligoclonal T-Cell Populations Favors a Benign Immune Reaction Over a T-Cell Lymphoma
Chung-Wu Lin, Chia-Liang Chang, Chi-Cheng Li, Yue-hua Chen, Wei-Hsiang Lee, and Su-Ming Hsu, 627
- Spurious Dyserythropoiesis
Li Juan Wang and Lewis Glasser, 57
- STI571 (Imatinib Mesylate) Reduces Bone Marrow Cellularity and Normalizes Morphologic Features Irrespective of Cytogenetic Response
Robert P. Hasserjian, Federica Boecklin, Sally Parker, Andy Chase, Sunanda Dhar, Michael Zaiac, Eduardo Olavarria, Irvin Lampert, Kristin Henry, Jane F. Apperley, and John M. Goldman, 360
- Therapy-Related Acute Myeloid Leukemia/Myelodysplasia With Balanced 21q22 Translocations
Daniel A. Arber, Marilyn L. Slovak, Leslie Popplewell, Victoria Bedell, David Ikke, and Janet D. Rowley, 306
- Thrombopoietin Administered During Induction Chemotherapy to Patients With Acute Myeloid Leukemia Induces Transient Morphologic Changes That May Resemble Chronic Myeloproliferative Disorders
Vonda K. Douglas, Martin S. Tallman, Larry D. Cripe, and LoAnn C. Peterson, 844
- Usefulness of Anti-CD117 in the Flow Cytometric Analysis of Acute Leukemia
Christine P. Hans, William G. Finn, Timothy P. Singleton, Bertram Schnitzer, and Charles W. Ross, 301
- Usefulness of Immunohistochemistry in the Diagnosis of Follicular Lymphoma in Bone Marrow Biopsy Specimens, The
Robert B. West, Roger A. Warnke, and Yasodha Natkunam, 636

IMMUNOPATHOLOGY

Original Article

- Transient Stress Lymphocytosis: An Immunophenotypic Characterization of the Most Common Cause of Newly Identified Adult Lymphocytosis in a Tertiary Hospital
Nitin J. Karandikar, Erin C. Hotchkiss, Robert W. McKenna, and Steven H. Kroft, 819

MICROBIOLOGY AND INFECTIOUS DISEASE

Original Articles

- Comparison of Latex Agglutination With Enzyme Immunoassay for Detection of Rotavirus in Fecal Specimens
Sonia M. Raboni, Meri B. Nogueira, Valeria M. Hakim, Vivian T.G. Torrecilha, Henrique Lerner, and Luine R.V. Tsuchiya, 392
- Comparison of Staining Methods and a Nested PCR Assay to Detect *Histoplasma capsulatum* in Tissue Sections
Ralf Bialek, Friederike Ernst, Klaus Dietz, Laura K. Najvar, Jürgen Knobloch, John R. Graybill, and Gundula Schaumburg-Lever, 597
- Comparison of Two Commercially Available Selective Media to Screen for Vancomycin-Resistant Enterococci
Janet Shigei, Grace Tan, Amy Shiao, Luis M. de la Maza, and Ellena M. Peterson, 152
- Molecular Characterization of Fatal Infectious Mononucleosis, The
Myra J. Wick, Kristine P. Woronzoff-Dashkoff, and Ronald C. McGlennen, 582
- Multiplexed Fluorescent Microsphere Immunoassay for Antibodies to Pneumococcal Capsular Polysaccharides, A
Jerry W. Pickering, Thomas B. Martins, Ryan W. Greer, M. Carl Schroder, Mark E. Astill, Christine M. Litwin, Stephen W. Hildreth, and Harry R. Hill, 589
- Systematic Study of Epstein-Barr Virus Serologic Assays Following Acute Infection, A
Thomas D. Rea, Rhoda L. Ashley, Joan E. Russo, and Dedra S. Buchwald, 156

PATHOLOGY PATTERNS REVIEWS

- ASCUS in Papanicolaou Smears: Problems, Controversies, and Potential Future Directions
Cindy M. McGrath, S62
- Bioterrorism: Clinical Recognition and Primary Management
John A. Branda and Kathryn Ruoff, S116
- Cartilaginous Lesions of the Skeleton
Mary L. Ostrowski and Kevin W. McEnery, S3
- Evaluation of Infertility, The
Robert S. Makar and Thomas L. Toth, S95
- Gastrointestinal Stromal Tumors: A Review of Characteristic Morphologic, Immunohistochemical, and Molecular Genetic Features
John R. Goldblum, S49

Immunohistochemistry, FISH, or ELISA?

I-Tien Yeh, S26

Laboratory Tests for the Diagnosis of Cystic Fibrosis

Lan Wang and Steven D. Freedman, S109

Measuring HER-2 in Breast Cancer: Practical Approach to the

Diagnosis of Hodgkin Lymphoma, A

Catherine M. Listinsky, S76

Prostate-Specific Antigen and the Early Diagnosis of Prostate Cancer

*Aaron Caplan and Alexander Kratz, S104*Urothelial Neoplasms of the Kidney and Ureter: An Epidemiologic,
Pathologic, and Clinical Review*Elizabeth M. Genega and Christopher R. Porter, S36*

SPECIAL ARTICLES

Estimating the Budgetary Impact of Setting the Medicare Clinical

Laboratory Fee Schedule at the National Limitation Amount

*Ronald L. Weiss, David Sundwall, and John M. Matsen, 691*Pediatric Laboratory Medicine: Current Challenges and Future
Opportunities*Cheryl M. Coffin, Marilyn S. Hamilton, Theodore J. Pysher,**Philip Bach, Edward Ashwood, Jeanne Schweiger, Dennis**Monahan, Deborah Perry, Beverly B. Rogers, Carlo Brugnara,**Joe Rutledge, Ronald Weiss, Owen Ash, Harry Hill, Wayne**Meikle, William Roberts, and Sharon Geaghan, 683*

subject index

Index of Issues: January, pp 1-176; February, pp 177-344; March, pp 345-504; April, pp 505-672; May, pp 673-832; June, pp 833-992. Page numbers beginning with S denote articles in the June Pathology Patterns Reviews.

A

- Abstracts of Papers, 330, 981
- Acetic acid, glacial, for reprocessing unsatisfactory ThinPrep specimens, 457
- Activated partial thromboplastin time
 - a "percentage correction" formula for evaluation of mixing studies, 62
 - point-of-care testing for prothrombin time, but not, correlates with laboratory methods in patients receiving aprotinin or epsilon-aminocaproic acid while undergoing cardiac surgery, 74
- Adenocarcinoma
 - developed in Barrett esophagus
 - beta-catenin expression and its association with prognostic factors in, 451
 - intratumoral genetic heterogeneity in Barrett, 558
 - of lung. *See* Lung: adenocarcinoma of metastatic, to body fluids, WT1, estrogen receptor, and progesterone receptor as markers for breast or ovarian primary sites, 745
 - of pancreas, MUC4 expression increases progressively in pancreatic intraepithelial neoplasia, 791
 - of prostate. *See* Prostate cancer: adenocarcinoma
- Adenoma
 - colonic polyps with no initial pathologic finding, an approach to, 419
 - negative colorectal biopsies, deeper examination of, 424
 - spindle cell metaplasia of thyroid, arising in association with papillary carcinoma and follicular, 199
- Aged, the, acute lymphoblastic leukemia in, Philadelphia chromosome may not be significant adverse prognostic factor, 716
- All-trans-retinoic acid, and leukemias resembling acute promyelocytic leukemia, microgranular variant, 651
- Alveolitis, allergic, inducible nitric oxide synthase, but not xanthine oxidase, as highly expressed in interstitial pneumonia and granulomatous diseases of human lung, 132
- epsilon-Aminocaproic acid, point-of-care testing for prothrombin time, but not activated partial thromboplastin time, correlates with laboratory methods in patients receiving aprotinin or, while undergoing cardiac surgery, 74
- AML1 gene, therapy-related acute myeloid leukemia and myelodysplasia, with balanced 21q22 translocations, 306
- Analytes, log-gaussian, probability-based construction of reference ranges for ratios of, an example from automated leukocyte counts, 851
- Analytic factors, in pediatric laboratory medicine, 685
- Anatomic pathology, in-house consultation in surgical pathology, quantifying value of, 751
- Anemia
 - aplastic, bone marrow samples from patients with, as not infected with parvovirus B19 and *Mycobacterium tuberculosis*, 36
 - neonatal point-of-care monitor, cost analysis of, 809
 - serum iron, iron-binding capacity, transferrin saturation, and ferritin levels, diurnal variation of, 802
- Angiogenesis, immunocytochemical localization of mast cells in lymphocytic hypophysitis, 478
- Anorectal gastrointestinal stromal tumors, S55
- Anthrax, in bioterrorism, S116
- Antinuclear antibodies, guidelines for laboratory use of autoantibody tests in diagnosis and monitoring of autoimmune rheumatic diseases, 316
- Antioxidants, inducible nitric oxide synthase, but not xanthine oxidase, as highly expressed in interstitial pneumonia and granulomatous diseases of human lung, 132
- Apoptosis
 - high apoptotic activity and low epithelial cell proliferation with underexpression of p21^{WAF1/CIP1} and p27^{Kip1} of mucinous carcinomas of the colorectum, comparison with well-differentiated types, 908
 - immunohistochemical localization of survivin in benign cervical mucosa, cervical dysplasia, and invasive squamous cell carcinoma, 738
- Aprotinin, point-of-care testing for prothrombin time, but not activated partial thromboplastin time, correlates with laboratory methods in patients receiving epsilon-aminocaproic acid or, while undergoing cardiac surgery, 74
- Asbestos, lung cancers attributed to, a pathologic study of 924 unselected cases, 9, 90
- Asbestosis, and asbestos exposure in lung cancer, 9, 90
- Atypical glandular cells of undetermined significance (AGUS)
 - interobserver reproducibility in cervical smears and corresponding thin-layer preparations, 96
- Papanicolaou tests diagnosed as atypical by cytotechnologist and downgraded to benign by pathologist, 520, 534

- Atypical metaplastic cells, ASCUS in Papanicolaou smear, problems, controversies, and potential future directions, S62
- Atypical squamous cells of undetermined significance (ASCUS) in Papanicolaou smears, problems, controversies, and potential future directions, S62
- Papanicolaou tests diagnosed as atypical by cytotechnologist and downgraded to benign by pathologist, 520, 534
- Autoimmune disorders, rheumatic diseases, guidelines for laboratory use of autoantibody tests in diagnosis and monitoring of, 316
- Automation
 - of blood cell counts, laboratory identification of cryoglobulinemia from, 606
 - of cervical cancer screening, expediting process for, a Hong Kong experience using AutoPap primary screening system with location-guided screening capability, 437
 - of immature reticulocyte fraction, comparison of five methods in diagnosis of bone marrow aplasia, 871
 - of sperm concentration analysis with new flow cytometry-based device, S-FCM, 401
- Autonomic nerve tumors, gastrointestinal, S58
- AutoPap primary screening system, 437

B

- Bacillus anthracis*, in bioterrorism, S116
- Barrett esophagus
 - beta-catenin expression and its association with prognostic factors in adenocarcinoma developed in, 451
 - and intestinal metaplasia in the esophagus, 117
 - intratumoral genetic heterogeneity in, 558
- bcl-2
 - expression in primary cutaneous diffuse large B-cell lymphoma, a clinicopathologic study of 15 cases, 574
 - follicular lymphoma diagnosis from bone marrow biopsy specimens, immunohistochemistry's usefulness in, 636
- bcl-6
 - expression in primary cutaneous diffuse large B-cell lymphoma, a clinicopathologic study of 15 cases, 574
 - follicular lymphoma diagnosis from bone marrow biopsy specimens, immunohistochemistry's usefulness in, 636
- Bethesda System, ASCUS in Papanicolaou smear, problems, controversies, and potential future directions, S62
- Bioterrorism, clinical recognition and primary management of, S116
- Bizarre parosteal osteochondromatous proliferation (Nora lesion), S18
- BK virus, hemorrhagic cystitis associated with, in HIV-infected patients, 922
- Blood cell counts, automated, laboratory identification of cryoglobulinemia from, 606
- Blood films, laboratory identification of cryoglobulinemia from, 606
- Blood testing, neonatal point-of-care monitor, cost analysis of, 809
- Body fluids, WT1, estrogen receptor, and progesterone receptor as markers for breast or ovarian primary sites in metastatic adenocarcinoma to, 745
- Bone marrow
 - aplasia, five fully automated methods for performing immature reticulocyte fraction, comparison in diagnosis of, 871
 - from aplastic anemia patients, as not infected with parvovirus B19 and *Mycobacterium tuberculosis*, 36
 - in chronic myeloid leukemia, STI571 (imatinib mesylate)-reduces cellularity and normalizes morphologic features regardless of cytogenetic response, 360
 - follicular lymphoma diagnosis from biopsy specimens from, immunohistochemistry's usefulness in, 636
 - marginal zone lymphoma involving, comparative study of, 698
 - spurious dyserythropoiesis as artifact of storage of, 57
 - thrombopoietin administered during induction chemotherapy to patients with acute myeloid leukemia induces transient morphologic changes that may resemble chronic myeloproliferative disorders, 844
- Bone neoplasms
 - cartilaginous lesions of the skeleton, S3
 - giant cell tumor of bone, RANK (receptor activator of nuclear factor kappa B) and RANK ligand as expressed in, 210
- Book Reviews, 163, 332, 492, 658, 985
- Brachytherapy, influence of percentage of preradiation needle biopsies with adenocarcinoma and total radiation dose on pathologic response of unfavorable prostate adenocarcinoma, 927
- Breast cancer
 - carcinoma, lobular neoplasia in breast core needle biopsy specimens as not associated with increased risk of ductal carcinoma in situ or invasive carcinoma, 797
 - cytokeratin immunohistochemical validation of sentinel node hypothesis in patients with, 729
 - HER-2/*neu* amplification in, stratification by tumor type and grade, 916
 - HER-2/*neu* expression in
 - assessment by immunohistochemical analysis and fluorescence in situ hybridization, comparison of HercepTest and PathVysion commercial assays, 935
 - formalin-fixed, paraffin-processed cell line standard for quality control of immunohistochemical assay of, 7, 81
 - immunohistochemistry, FISH, or ELISA for measuring, S26
 - interlaboratory variation in immunohistochemical determination of estrogen receptor status using a breast cancer tissue microarray, assessment of, 723
 - WT1, estrogen receptor, and progesterone receptor as markers for breast or ovarian primary sites in metastatic adenocarcinoma to body fluids, 745
- Bubonic plague
 - in bioterrorism, S116
 - immunohistochemical detection of *Yersinia pestis*, in formalin-fixed, paraffin-embedded tissue, 205

C

- Cancer. *See also sites and types by name*
targeted therapeutics for, 355
- Carcinoma. *See also Adenocarcinoma*
 - of breast, lobular neoplasia in breast core needle biopsy specimens as not associated with increased risk of ductal carcinoma in situ or invasive, 797
 - bronchioloalveolar, lung adenocarcinoma with component of, as frequently associated with foci of high-grade atypical adenomatous hyperplasia, 464

- cervical, immunohistochemical localization of survivin in benign cervical mucosa, cervical dysplasia, and invasive squamous cell, 738
- colorectal
 - deeper examination of negative biopsies, 424
 - high apoptotic activity and low epithelial cell proliferation with underexpression of p21^{WAF1/CIP1} and p27^{Kip1} of mucinous, comparison with well-differentiated types, 908
 - polyps with no initial pathologic finding, an approach to, 419
 - follicular variant of papillary thyroid
 - strict criteria for diagnosis of encapsulated, 16
 - why there is tendency to "overdiagnose," 19
 - hepatocellular, clinicopathologic and prognostic significance of the histologic activity of noncancerous liver tissue in hepatitis B virus-associated, 411
 - of lung, asbestos exposure in, a pathologic study of 924 unselected cases, 9, 90
 - ovarian. *See* Ovarian carcinoma
 - papillary, spindle cell metaplasia of thyroid, arising in association with follicular adenoma and, 199
 - squamous cell
 - atypical fibroxanthoma distinguished from, 126
 - of conjunctiva, human papillomavirus not detected in, 429
 - transitional cell of renal pelvis, diagnostic role of pelvic washings for, 444
 - of urinary tract, urothelial neoplasms of kidney and ureter, S36
 - uterine, WT1 immunoreactivity in uterine papillary serous carcinomas is different from serous ovarian carcinomas, 541
- Cardiac surgery, point-of-care testing for prothrombin time, but not activated partial thromboplastin time, correlates with laboratory methods in patients receiving aprotinin or epsilon-aminocaproic acid while undergoing, 74
- Carisoprodol, as unrecognized drug of abuse, 396
- Cartilaginous lesions, of the skeleton, S3
- Castleman disease, human herpesvirus 8 genome and HHV-8 viral interleukin-6 expression in archival cases of, without risk factors for HIV, analysis of, 268
- Catenins, beta-catenin expression and its association with prognostic factors in adenocarcinoma developed in Barrett esophagus, 451
- Caveolin-1, expression in ovarian carcinoma, as MDR1 independent, 225
- CD3
 - blastic natural killer cell lymphoma/leukemia as CD3-, 41
 - expression in primary cutaneous diffuse large B-cell lymphoma, a clinicopathologic study of 15 cases, 574
- CD5, expression in primary cutaneous diffuse large B-cell lymphoma, a clinicopathologic study of 15 cases, 574
- CD10
 - expression in primary cutaneous diffuse large B-cell lymphoma, a clinicopathologic study of 15 cases, 574
 - follicular lymphoma diagnosis from bone marrow biopsy specimens, immunohistochemistry's usefulness in, 636
- CD23, follicular lymphoma diagnosis from bone marrow biopsy specimens, immunohistochemistry's usefulness in, 636
- CD33, blastic natural killer cell lymphoma/leukemia as CD33+, 41
- CD44, in systemic and primary cutaneous anaplastic large cell lymphoma, 276
- CD44v6, expression associated with systemic anaplastic large cell lymphoma, comparison with primary cutaneous anaplastic large cell lymphoma, 276
- CD56, blastic natural killer cell lymphoma/leukemia as CD56+, 41
- CD57, and transient stress lymphocytosis, 819
- CD99, immunoreactivity in atypical fibroxanthoma, a common feature of diagnostic value, 126
- CD117
 - in gastrointestinal stromal tumors, immunohistochemical staining for, 183, 188
 - usefulness of anti-CD117 in flow cytometric analysis of acute leukemia, 301
- Cell line standard, formalin-fixed, paraffin-processed, for quality control of immunohistochemical assay of HER-2/neu expression in breast cancer, 7, 81
- Cell proliferation, high apoptotic activity and low epithelial, with underexpression of p21^{WAF1/CIP1} and p27^{Kip1} of mucinous carcinomas of the colorectum, comparison with well-differentiated types, 908
- Cellular spindle cell tumor, S51
- C-erbB-2. *See* HER-2/neu
- Cerebrospinal fluid, flow cytometric analysis of, and its usefulness in routine clinical practice, 952
- Cervical cancer. *See also* Papanicolaou smear
 - atypical glandular cells of undetermined significance, interobserver reproducibility in cervical smears and corresponding thin-layer preparations, 96
 - expediting screening process for, a Hong Kong experience using AutoPap primary screening system with location-guided screening capability, 437
 - immunohistochemical localization of survivin in benign cervical mucosa, cervical dysplasia, and invasive squamous cell carcinoma, 738
- Cervical epithelial neoplasia, ASCUS in Papanicolaou smear, problems, controversies, and potential future directions, S62
- Cervix, uterine
 - granulomas of, clinical and pathologic features, 771
 - in infertility evaluation, S95
- CF transmembrane conductance regulator, in cystic fibrosis diagnosis, S109
- Chemoresistance. *See* Multidrug resistance
- Chemotherapy, induction, thrombopoietin administered to patients with acute myeloid leukemia during, induces transient morphologic changes that may resemble chronic myeloproliferative disorders, 844
- Chest wall, mesenchymal hamartoma of the, S13
- Children
 - fatal cytotoxic T-cell proliferation in chronic active Epstein-Barr virus infection in, 283
 - pediatric laboratory medicine, 683
- Chondroblastoma, S10
- Chondroid chordoma, S20
- Chondroma, S7
- Chondromyxoid fibroma, S11
- Chondrosarcoma, S13
- Chromatography, high-pressure liquid, for heparin-induced thrombocytopenia diagnosis, 900
- c-Ki-ras gene, mutation in mucinous carcinomas of the colorectum, 908
- Clear cells, cytologic features of clear cell sarcoma (malignant melanoma) of soft parts, a study of fine-needle aspirates and exfoliative specimens, 217
- Clinical Laboratory Fee Schedule, Medicare, estimating budgetary impact of setting at National Limitation Amount, 691

Clomiphene citrate challenge test, in infertility evaluation, S100

Clonality, heterogeneity in B-cell lymphomas arising from germinal centers, assessment by flow cytometry, 864

CoaguChek, 892

Coagulation. *See* Activated partial thromboplastin time; Prothrombin time

Colorectal cancer

- deeper examination of negative biopsies, 424
- gastrointestinal stromal tumors, S56
- high apoptotic activity and low epithelial cell proliferation with underexpression of p21^{WAF1/CIP1} and p27^{Kip1} of mucinous carcinomas of the colorectum, comparison with well-differentiated types, 908
- polyps with no initial pathologic finding, an approach to, 419

Complementary DNA array, in gene expression profiling, 109

Conjunctiva, human papillomavirus DNA in malignant epithelial neoplasms of, polymerase chain reaction failing to detect, 429

Connective tissue diseases, inflammatory, guidelines for laboratory use of autoantibody tests in diagnosis and monitoring of, 316

Consultation, in-house, in surgical pathology, quantifying value of, 751

Core needle biopsy, lobular neoplasia in breast specimens as not associated with increased risk of ductal carcinoma in situ or invasive carcinoma, 797

Correspondence and Corrections, 165, 333, 493, 660, 986

Cost-benefit analysis

- of neonatal point-of-care monitor, 809
- willingness to pay for new technologies for Papanicolaou test technologies, 517, 524

Cryoglobulinemia, laboratory identification of, from automated blood cells counts, fresh blood samples, and blood films, 606

Cyclin D1, in mantle cell lymphoma

- nucleated variant of, with leukemic manifestations mimicking prolymphocytic leukemia, 246
- quantitative real-time reverse transcription—polymerase chain reaction analysis of, 237

Cyclooxygenase-2, up-regulation of expression in lymphocytic thyroiditis and thyroid tumors, significant correlation with inducible nitric oxide synthase, 546

Cystic fibrosis, laboratory tests for diagnosis of, S109

Cytogenetics

- precursor T-cell acute lymphoblastic leukemia in adults, age-related immunophenotypic, cytogenetic, and molecular subsets, 252
- STI571 (imatinib mesylate) reduces bone marrow cellularity and normalizes morphologic features regardless of cytogenetic response, 360

Cytokeratins

- expression of cytokeratins 7 and 20 in ovarian neoplasms, 944
- immunohistochemical validation of sentinel node hypothesis in patients with breast cancer, 729
- reactivity in prostate adenocarcinomas with intermediate or high Gleason scores, 471

Cytology. *See also* Papanicolaou smear

- transitional carcinoma cell of renal pelvis, diagnostic role of pelvic washings for, 444
- urinary cytology associated with human polyomavirus and indinavir therapy in HIV-infected patients, 922

Cytomorphology, fine-needle aspiration in non-Hodgkin lymphoma, evaluation of cell size by flow cytometry and, 880

D

Danaparoid, and high-pressure liquid chromatography for diagnosis of heparin-induced thrombocytopenia, 900

Day 3 follicle-stimulating hormone test, in infertility evaluation, S99

Dermatopolymyositis, guidelines for laboratory use of autoantibody tests in diagnosis and monitoring of, 316

Diagnosis, minimum risk of "overdiagnosis," 19

Diagnostic accuracy

- in-house consultation in surgical pathology, quantifying value of, 751
- in telepathology for routine light microscopic and frozen section diagnosis, 783

DPC4 (*MAD4*) gene, alterations in fine-needle aspirates of the pancreas, a molecular panel correlates with and supplements cytologic diagnosis, 755

Drugs of abuse, carisoprodol as unrecognized, 396

Drug testing, rapid spot tests for detecting presence of adulterants in urine specimens submitted for, 325

Dyserythropoiesis, spurious, 57

E

EBER in situ hybridization, and LMP1 immunohistochemical tests for detecting Epstein-Barr virus in Hodgkin lymphoma, guidelines for interpreting, 259

Effector T cells, and transient stress lymphocytosis, 819

Encephalitis, Rasmussen, a clinicopathologic and immunohistochemical study of seven patients with, 776

Enchondroma, S7

Enchondroma protuberans, S9

Endometrium, laser capture microdissection as essential for gene expression profiling of clinically resected cancer tissues, 109

Enterococci, vancomycin-resistant, comparison of two commercially available selective media to screen for, 152

Enzyme immunoassay, for rotavirus detection, latex agglutination compared with, in fecal specimens, 392

Enzyme-linked immunosorbent assay

- for Epstein-Barr virus detection, 156
- for HER-2/*neu* measurement in breast cancer, S26
- multiplexed fluorescent microsphere immunoassay for antibodies to pneumococcal capsular polysaccharides, 589

Enzymes, and probability-based construction of reference ranges for ratios of log-gaussian analytes, an example from automated leukocyte counts, 851

Epilepsy, in Rasmussen encephalitis, 776

Epithelioid gastric stromal tumor, S52

Epithelium, human papillomavirus associated with squamous, 429

Epstein-Barr virus

- chronic active infection in childhood, fatal cytotoxic T-cell proliferation in, 283

- EBV-associated B-cell lymphoproliferative disorders in
 - angioimmunoblastic T-cell lymphoma and peripheral T-cell lymphoma, unspecified, 368
 - and fatal infectious mononucleosis, 582
 - in Hodgkin lymphoma, EBER in situ hybridization and LMP1 immunohistochemical tests for detecting, guidelines for interpreting, 259
 - in Rasmussen encephalitis, 776
 - serologic assays following acute infection, systematic study of, 156
- Error, cytohistologic discrepancies, as means to improve pathology practice and patient outcomes, 567
- Erythrocyte sedimentation rate, use of fresh blood for quality control in, 621
- Esophagus. *See also* Barrett esophagus
 - gastrointestinal stromal tumors of, S57
 - intestinal metaplasia of, or esophagogastric junction, evidence of distinct clinical, pathologic, and histochemical staining features, 117
- Esoteric laboratory tests, in pediatric laboratory medicine, 687
- Estrogen receptor
 - interlaboratory variation in immunohistochemical determination of status of, using a breast cancer tissue microarray, assessment of, 723
 - as marker for breast or ovarian primary sites in metastatic adenocarcinoma to body fluids, 745

F

- Fallopian tubes, in infertility evaluation, S95
- Femur, polymorphic fibro-osseous lesion of the, S13
- Ferritin, diurnal variation of levels of, 802
- Fibrocartilaginous mesenchymoma, S13
- Fibrous dysplasia, S19
- Fibroexanthoma, atypical, CD99 immunoreactivity in, 126
- Fine-needle aspiration biopsy
 - cytologic features of clear cell sarcoma (malignant melanoma) of soft parts, a study of fine-needle aspirates and exfoliative specimens, 217
 - of Kuttner tumor of the submandibular gland, findings of seven cases, 103
 - neutrophil-rich Ki-1 positive anaplastic large-cell lymphoma, a study by, 709
 - in non-Hodgkin lymphoma, evaluation of cell size by cytomorphology and flow cytometry, 880
 - of pancreas, *K-ras*, *p53*, *DPC4 (MAD4)* alterations in, a molecular panel correlates with and supplements cytologic diagnosis, 755
- "Flat" urothelial neoplasms, S40
- Flow cytometry
 - automated sperm concentration analysis with new flow cytometry-based device, S-FCM, 401
 - of cerebrospinal fluid samples and its usefulness in routine clinical practice, 952
 - clonal heterogeneity in B-cell lymphomas arising from germinal centers, assessment by, 864
 - fine-needle aspiration in non-Hodgkin lymphoma, evaluation of cell size by cytomorphology and, 880

- hemoglobin F measurement in RBCs, diagnostic usefulness in distinguishing hereditary persistence of fetal hemoglobin (HPFH) and hemoglobin S-HPFH from other conditions with elevated levels of hemoglobin F, 857
- immunophenotyping by
 - anti-CD117 in flow cytometric analysis of acute leukemia, usefulness of, 301
- B-cell non-Hodgkin lymphoma, variability of, 615
- in posttransplant lymphoproliferative disorders, 24
- Fluorescence in situ hybridization
 - and formalin-fixed, paraffin-processed cell line standard for quality control of immunohistochemical assay of HER-2/neu expression in breast cancer, 81
 - HER-2/neu assessment by immunohistochemical analysis and, comparison of HercepTest and PathVysion commercial assays, 935
 - for HER-2/neu measurement in breast cancer, S26
- Follicle-stimulating hormone, in infertility evaluation, S99
- Follicular lesions
 - follicular-patterned lesions of the thyroid, 143
 - follicular variant of papillary thyroid carcinoma, 16, 19
 - spindle cell metaplasia of thyroid, arising in association with papillary carcinoma and follicular adenoma, 199
- Fractures, misdiagnosis as malignant tumor, S17
- Francisella tularensis*, in bioterrorism, S116
- Frozen sections, telepathology for routine diagnosis of, 783

G

- Gastroesophageal reflux, and intestinal metaplasia of esophagus or esophagogastric junction, 117
- Gastrointestinal stromal tumors
 - immunohistochemical staining for KIT in, 183, 188
 - morphologic, immunohistochemical, and molecular genetic features of, S49
- Gene expression profiling, of clinically resected cancer tissues, laser capture microdissection as essential for, 109
- Gene rearrangement, fatal infectious mononucleosis, molecular characterization of, 582
- Giant cell tumor of bone, RANK (receptor activator of nuclear factor kappa B) and RANK ligand as expressed in, 210
- Glandular cells, atypical, of undetermined significance, interobserver reproducibility in cervical smears and corresponding thin-layer preparations, 96
- Gleason score
 - immunophenotypic characterization of 225 prostate adenocarcinomas with intermediate or high, 471
 - influence of percentage of preradiation needle biopsies with adenocarcinoma and total radiation dose on pathologic response of unfavorable prostate adenocarcinoma, 927
- Gleevec. *See* STI571 (imatinib mesylate)
- P-Glycoprotein, multidrug resistance, expression in nephroblastoma tumor cells and intratumoral capillary endothelial cells, 484
- Granulomas, uterine, clinical and pathologic features, 771
- Granulomatous diseases of human lung, inducible nitric oxide synthase, but not xanthine oxidase, as highly expressed in interstitial pneumonia and, 132

Grocott stain, and nested PCR compared for detecting *Histoplasma capsulatum* in tissue sections, 597

Gross cystic disease fluid protein, as marker for breast or ovarian primary sites in metastatic adenocarcinoma to body fluids, 745

H

Hamartoma, mesenchymal, of the chest wall, S13

Helicobacter pylori, and intestinal metaplasia of esophagus or esophagogastric junction, 117

Hematuria, urinary cytology associated with human polyomavirus and indinavir therapy in HIV-infected patients, 922

Hemoglobin F, flow cytometric measurement in RBCs, diagnostic usefulness in distinguishing hereditary persistence of fetal hemoglobin (HPFH) and hemoglobin S-HPFH from other conditions with elevated levels of, 857

Hemoglobin S-HPFH, and hereditary persistence of fetal hemoglobin, flow cytometric measurement of hemoglobin F in RBCs, diagnostic usefulness in distinguishing from other conditions with elevated levels of hemoglobin F, 857

Heparin, high-pressure liquid chromatography for diagnosis of heparin-induced thrombocytopenia, 900

Hepatitis B virus, clinicopathologic and prognostic significance of the histologic activity of noncancerous liver tissue in HBV-associated hepatocellular carcinoma, 411

HER-2/neu

amplification of HER-2/neu in breast cancer, stratification by tumor type and grade, 916

assessment by immunohistochemical analysis and fluorescence in situ hybridization, comparison of HercepTest and PathVysion commercial assays, 935

formalin-fixed, paraffin-processed cell line standard for quality control of immunohistochemical assay of, 7, 81

immunohistochemistry, FISH, or ELISA for measuring, S26

HercepTest, 935

Hereditary persistence of fetal hemoglobin, and hemoglobin

S-HPFH, flow cytometric measurement of hemoglobin F in RBCs, diagnostic usefulness in distinguishing from other conditions with elevated levels of hemoglobin F, 857

Histologic activity index, clinicopathologic and prognostic significance of the histologic activity of noncancerous liver tissue in hepatitis B virus-associated hepatocellular carcinoma, 411

Histoplasma capsulatum, nested PCR and staining methods compared for detecting in tissue sections, 597

Histoplasmosis, nested PCR and staining methods compared for detecting *Histoplasma capsulatum* in tissue sections, 597

Hodgkin disease

EBER in situ hybridization and LMP1 immunohistochemical tests for detecting Epstein-Barr virus in, guidelines for interpreting, 259

follicular, a histopathologic study of, 29

practical approach to diagnosis of, S76

Human herpesvirus 8, genome and HHV-8 viral interleukin-6 expression in archival cases of Castleman disease without risk factors for HIV, analysis of, 268

Human immunodeficiency virus infection, urinary cytology associated with human polyomavirus and indinavir therapy in patients with, 922

Human papillomavirus

immunohistochemical localization of survivin in benign cervical mucosa, cervical dysplasia, and invasive squamous cell carcinoma, 738

in malignant epithelial conjunctival neoplasms, polymerase chain reaction failing to detect, 429

Human polyomavirus, urinary cytology associated with indinavir therapy and, in HIV-infected patients, 922

Hyperplasia

lung adenocarcinoma with bronchioloalveolar carcinoma component as frequently associated with foci of high-grade atypical adenomatous, 464

thymic follicular, mucosa-associated lymphoid tissue lymphoma versus, 51

Hyperplastic polyps

negative colorectal biopsies, deeper examination of, 424

polyps with no initial pathologic finding, an approach to, 419

Hypophysitis, lymphocytic, immunocytochemical localization of mast cells in, 478

Hysterosalpingogram, in infertility evaluation, S101

I

Immature reticulocyte fraction, five fully automated methods for performing, comparison in diagnosis of bone marrow aplasia, 871

Immunofluorescence, indirect, for Epstein-Barr virus detection, 156

Immunohistochemistry

caveolin-1 expression in ovarian carcinoma, as MDR1 independent, 225

CD44v6 expression associated with systemic anaplastic large cell lymphoma, comparison with primary cutaneous anaplastic large cell lymphoma, 276

CD99 immunoreactivity in atypical fibroxanthoma, 126
cytokeratin 7 and 20 expression in ovarian neoplasms, 944
cytokeratin immunohistochemical validation of sentinel node hypothesis in patients with breast cancer, 729

cytologic features of clear cell sarcoma (malignant melanoma) of soft parts, a study of fine-needle aspirates and exfoliative specimens, 217

fatal cytotoxic T-cell proliferation in chronic active Epstein-Barr virus infection in childhood, 283

follicular Hodgkin lymphoma, a histopathologic study, 29

for follicular lymphoma diagnosis from bone marrow biopsy specimens, usefulness of, 636

formalin-fixed, paraffin-processed cell line standard for quality control of assay of HER-2/neu expression in breast cancer, 7, 81

of gastrointestinal stromal tumors, S49

P-glycoprotein expression in nephroblastoma tumor cells and intratumoral capillary endothelial cells, 484

HER-2/neu assessment by fluorescence in situ hybridization and, comparison of HercepTest and PathVysion commercial assays, 935

for HER-2/neu measurement in breast cancer, S26

high apoptotic activity and low epithelial cell proliferation with underexpression of p21^{WAF1/CIP1} and p27^{Kip1} of mucinous carcinomas of the colorectum, comparison with well-differentiated types, 908

- in Hodgkin lymphoma diagnosis, S78
- immunocytochemical localization of mast cells in lymphocytic hypophysitis, 478
- immunophenotypic characterization of 225 prostate adenocarcinomas with intermediate or high Gleason scores, 471
- interlaboratory variation in immunohistochemical determination of estrogen receptor status using a breast cancer tissue microarray, assessment of, 723
- for LMP1 and EBER in situ hybridization for detecting Epstein-Barr virus in Hodgkin lymphoma, guidelines for interpreting, 259
- localization of survivin in benign cervical mucosa, cervical dysplasia, and invasive squamous cell carcinoma, 738
- morphologic spectrum of metastatic prostatic adenocarcinoma to the lung, with special emphasis on histologic features overlapping with other pulmonary neoplasms, 552
- neutrophil-rich Ki-1 positive anaplastic large-cell lymphoma, a study by fine-needle aspiration biopsy, 709
- primary cutaneous diffuse large B-cell lymphoma, a clinico-pathologic study of 15 cases, 574
- RANK (receptor activator of nuclear factor kappa B) and RANK ligand as expressed in giant cell tumor of bone, 210
- staining for KIT, in soft tissue sarcomas, 183, 188
- tissue protection, as useful adjunct in interpretation of prostate biopsy specimens and other selected cases in which immunostains are needed on minute lesions, 194
- Yersinia pestis* detection, in formalin-fixed, paraffin-embedded tissue, 205
- Immunohistology, *Histoplasma capsulatum* detection in tissue sections, staining methods and nested PCR compared for, 597
- Immunoperoxidase, tissue protection immunohistochemistry, as useful adjunct in interpretation of prostate biopsy specimens and other selected cases in which immunostains are needed on minute lesions, 194
- Immunophenotyping
 - of adult acute leukemias, relationship to morphologic and molecular classification and proposal for a minimal screening program highly predictive for lineage discrimination, 380
 - of blastic natural killer cell lymphoma/leukemia, a report of seven cases, 41
 - discrepancies in lymphoma cells obtained simultaneously from different anatomic sites, 644
 - by flow cytometry
 - anti-CD117 in analysis of acute leukemia, usefulness of, 301
 - B-cell non-Hodgkin lymphoma, variability of, 615
 - in posttransplant lymphoproliferative disorders, 24
 - leukemias resembling acute promyelocytic leukemia, microgranular variant, 651
 - precursor T-cell acute lymphoblastic leukemia in adults, age-related immunophenotypic, cytogenetic, and molecular subsets, 252
 - of prostate adenocarcinomas with intermediate or high Gleason scores, 471
 - transient stress lymphocytosis, an immunophenotypic characterization of the most common cause of newly identified adult lymphocytosis in a tertiary hospital, 819
- Immunostaining, and nested PCR compared for detecting *Histoplasma capsulatum* in tissue sections, 597
- Indinavir sulfate, urinary cytology associated with human polyomavirus and, in HIV-infected patients, 922
- Infants, newborn, neonatal point-of-care monitor, cost analysis of, 809
- Infertility, evaluation of, S95
- Infiltration, intrasinusoidal, in marginal zone lymphoma involving bone marrow, 698
- Information for Authors, 162
- In-house consultation, in surgical pathology, quantifying value of, 751
- In-line monitoring, neonatal point-of-care monitor, cost analysis of, 809
- In Memoriam
 - William Kaufmann, 491
 - Herbert M. Sommers, 826
- In situ hybridization
 - caveolin-1 expression in ovarian carcinoma as MDR1 independent, 225
 - EBER, and LMP1 immunohistochemical tests for detecting Epstein-Barr virus in Hodgkin lymphoma, guidelines for interpreting, 259
- Institute of Medicine, on budgetary impact of setting Medicare Clinical Laboratory Fee Schedule at National Limitation Amount, 691
- Interlaboratory variation, in immunohistochemical determination of estrogen receptor status using a breast cancer tissue microarray, assessment of, 723
- Interleukin-6, human herpesvirus 8 genome and HHV-8 viral interleukin-6 expression in archival cases of Castleman disease without risk factors for HIV, analysis of, 268
- International normalized ratio, minimum number of fresh whole blood and plasma samples from patients and healthy subjects for International Sensitivity Index calibration of CoaguChek and RapidPointCoag monitors, 892
- International Sensitivity Index, calibration of CoaguChek and RapidPointCoag monitors, minimum number of fresh whole blood and plasma samples from patients and healthy subjects for, 892
- Interobserver variability, Papanicolaou tests diagnosed as atypical by cytotechnologist and downgraded to benign by pathologist, 520, 534
- Interstitial cells of Cajal, gastrointestinal stromal tumors and, S49
- Intestinal metaplasia, of esophagus or esophagogastric junction, evidence of distinct clinical, pathologic, and histochemical staining features, 117
- Intestine, small, gastrointestinal stromal tumors of, S54
- Intraepithelial neoplasia, pancreatic, MUC4 expression increases progressively in, 791
- Invasive urothelial carcinoma, S40
- Iron, serum iron, iron-binding capacity, transferrin saturation, and ferritin levels, diurnal variation of, 802
- Iron-binding capacity, diurnal variation of, 802
- K**
 - Karyotyping, leukemias resembling acute promyelocytic leukemia, microgranular variant, 651
 - Keratoses, benign lichenoid, malignant melanoma misdiagnosed as, 766
 - Kidney
 - nephroblastoma, multidrug resistance P-glycoprotein expression in tumor cells and intratumoral capillary endothelial cells, 484

- transitional carcinoma cell of renal pelvis, diagnostic role of pelvic washings for, 444
- urothelial neoplasms of, an epidemiologic, pathologic, and clinical review, S36
- Kikuchi lymphadenitis, with oligoclonal T-cell populations, spontaneous regression of, favors a benign immune reaction over T-cell lymphoma, 627
- KIT, in soft tissue sarcomas, immunohistochemical staining for, 183, 188
- Kleihauer-Betke test, flow cytometric measurement of hemoglobin-F in RBCs compared with, 857
- K-ras oncogene, alterations in fine-needle aspirates of the pancreas, a molecular panel correlates with and supplements cytologic diagnosis, 755
- Kuttner tumor, of the submandibular gland, fine-needle aspiration cytologic findings of seven cases, 103
- L**
- Laboratory medicine, pediatric, 683
- Laser capture microdissection, as essential for gene expression profiling of clinically resected cancer tissues, 109
- Latex agglutination test, for rotavirus detection, enzyme immunoassay compared with, in fecal specimens, 392
- Leiomyoma, gastrointestinal stromal tumors and, S49
- Leiomyosarcoma, gastrointestinal stromal tumors and, S49
- Leukemia
- acute
 - immunophenotype of 325 adults, relationship to morphologic and molecular classification and proposal for a minimal screening program highly predictive for lineage discrimination, 380
 - usefulness of anti-CD117 in flow cytometric analysis of, 301
 - acute lymphoblastic, in elderly patients, Philadelphia chromosome may not be significant adverse prognostic factor, 716
 - acute myeloid, thrombopoietin administered during induction chemotherapy to patients with, induces transient morphologic changes that may resemble chronic myeloproliferative disorders, 844
 - acute promyelocytic, microgranular variant, leukemias resembling, 651
 - blastic natural killer cell, 41
 - chronic myeloid, STI571 (imatinib mesylate) reduces bone marrow cellularity and normalizes morphologic features regardless of cytogenetic response, 360
 - precursor T-cell acute lymphoblastic, in adults, age-related immunophenotypic, cytogenetic, and molecular subsets, 252
 - prolymphocytic, nucleated variant of mantle cell lymphoma with leukemic manifestations mimicking, 246
 - therapy-related acute myeloid, with balanced 21q22 translocations, 306
- Leukocytes, probability-based construction of reference ranges for ratios of log-gaussian analytes, an example from automated leukocyte counts, 851
- Lichenoid tissue reaction, in malignant melanoma, as potential diagnostic pitfall, 766
- Liver, clinicopathologic and prognostic significance of the histologic activity of noncancerous liver tissue in hepatitis B virus-associated hepatocellular carcinoma, 411
- LMP1, immunohistochemical tests and EBER *in situ* hybridization for detecting Epstein-Barr virus in Hodgkin lymphoma, guidelines for interpreting, 259
- Lobular neoplasia, in breast core needle biopsy specimens, as not associated with increased risk of ductal carcinoma *in situ* or invasive carcinoma, 797
- Location-guided screening, expediting cervical cancer screening process, a Hong Kong experience using AutoPap primary screening system with, 437
- Log-gaussian analytes, probability-based construction of reference ranges for ratios of, an example from automated leukocyte counts, 851
- Luminex multiple analyte profiling system, as multiplexed fluorescent microsphere immunoassay for antibodies to pneumococcal capsular polysaccharides, 589
- Lung
- adenocarcinoma of
 - with bronchioloalveolar carcinoma component as frequently associated with foci of high-grade atypical adenomatous hyperplasia, 464
 - morphologic spectrum of metastatic prostatic adenocarcinoma to the lung, with special emphasis on histologic features overlapping with other pulmonary neoplasms, 552
 - carcinoma of, asbestos exposure in, a pathologic study of 924 unselected cases, 9, 90
 - inducible nitric oxide synthase, but not xanthine oxidase, as highly expressed in interstitial pneumonia and granulomatous diseases of human, 132
- Lupus erythematosus, systemic, guidelines for laboratory use of autoantibody tests in diagnosis and monitoring of, 316
- Lymphadenitis, Kikuchi, with oligoclonal T-cell populations, spontaneous regression of, favors a benign immune reaction over T-cell lymphoma, 627
- Lymphocytes, lymphocyte-rich and lymphocyte predominance Hodgkin disease, 29
- Lymphocytosis, transient stress, an immunophenotypic characterization of the most common cause of newly identified adult lymphocytosis in a tertiary hospital, 819
- Lymphoid aggregates, in colorectal biopsy specimens, 424
- Lymphoma
- anaplastic large cell, CD44v6 expression associated with systemic, comparison with primary cutaneous, 276
 - angioimmunoblastic T-cell and peripheral T-cell, unspecified, Epstein-Barr virus-associated B-cell lymphoproliferative disorders in, 368
 - B-cell, arising from germinal centers, clonal heterogeneity in, assessment by flow cytometry, 864
 - blastic natural killer cell, 41
 - cutaneous diffuse large B-cell, primary, a clinicopathologic study of 15 cases, 574
 - follicular, immunohistochemistry's usefulness for diagnosing from bone marrow biopsy specimens, 636
 - Hodgkin. *See* Hodgkin disease
 - human herpesvirus 8 genome and HHV-8 viral interleukin-6 expression in Castleman disease and risk for, 268
 - mantle cell
 - nucleated variant of, with leukemic manifestations mimicking prolymphocytic leukemia, 246
 - quantitative real-time reverse transcription-polymerase chain reaction analysis of cyclin D1 expression in diagnosis of, 237

- marginal zone, involving bone marrow, comparative study of, 698
 - mucosa-associated lymphoid tissue of thymus, hyperplasia versus, 51
 - non-Hodgkin
 - B-cell, immunophenotypic variability of, a retrospective study of cases analyzed by flow cytometry, 615
 - fine-needle aspiration in, evaluation of cell size by cytomorphology and flow cytometry, 880
 - immunophenotypic discrepancies in samples obtained simultaneously from different anatomic sites, 644
 - neutrophil-rich Ki-1 positive anaplastic large-cell, a study by fine-needle aspiration biopsy, 709
 - T-cell, Kikuchi lymphadenitis with oligoclonal T-cell populations, spontaneous regression of, favors a benign immune reaction over, 627
 - Lymphoproliferative disorders
 - Epstein-Barr virus-associated B-cell, in angioimmunoblastic T-cell lymphoma and peripheral T-cell lymphoma, unspecified, 368
 - fatal cytotoxic T-cell proliferation in chronic active Epstein-Barr virus infection in childhood, 283
 - posttransplant, flow cytometric immunophenotyping in, 24
 - transient stress lymphocytosis, 819
 - Lymphoscintigraphy, cytokeratin immunohistochemical validation of sentinel node hypothesis in patients with breast cancer, 729
- M**
- Maffucci syndrome, S9
 - Mast cells, in lymphocytic hypophysitis, immunocytochemical localization of, 478
 - MDR1, caveolin-1 expression in ovarian carcinoma, as independent of, 225
 - Medicare Clinical Laboratory Fee Schedule, estimating budgetary impact of setting at National Limitation Amount, 691
 - Megakaryocytes, thrombopoietin administered during induction chemotherapy to patients with acute myeloid leukemia induces transient morphologic changes that may resemble chronic myeloproliferative disorders, 844
 - Melanoma, malignant
 - atypical fibroxanthoma distinguished from, 126
 - cytologic features of clear cell sarcoma (malignant melanoma) of soft parts, a study of fine-needle aspirates and exfoliative specimens, 217
 - lichenoid tissue reaction in, a potential diagnostic pitfall, 766
 - Memory T cells, and transient stress lymphocytosis, 819
 - Meprobamate, drug screening for, 396
 - Mesenchymal hamartoma of the chest wall, S13
 - Messenger RNA, caveolin-1 expression in ovarian carcinoma as MDR1 independent, 225
 - Metaplasia
 - intestinal, of esophagus or esophagogastric junction, evidence of distinct clinical, pathologic, and histochemical staining features, 117
 - spindle cell, of thyroid, arising in association with papillary carcinoma and follicular adenoma, 199
 - Metastasis
 - cytokeratin immunohistochemical validation of sentinel node hypothesis in patients with breast cancer, 729
 - morphologic spectrum of metastatic prostatic adenocarcinoma to the lung, with special emphasis on histologic features overlapping with other pulmonary neoplasms, 552
 - tumors metastatic to bone, S21
 - WT1, estrogen receptor, and progesterone receptor as markers for breast or ovarian primary sites in metastatic adenocarcinoma to body fluids, 745
 - Microarray, tissue, interlaboratory variation in immunohistochemical determination of estrogen receptor status using a breast cancer, assessment of, 723
 - Micrometastasis, cytokeratin immunohistochemical validation of sentinel node hypothesis in patients with breast cancer, 729
 - Microscopy
 - fluorescent, for detecting *Histoplasma capsulatum* in tissue sections, 597
 - light, telepathology for routine diagnosis with, 783
 - Mixing studies, a "percentage correction" formula for evaluation of, 62
 - Molecular genetics, of gastrointestinal stromal tumors, S49
 - Molecular techniques
 - K-ras, p53, DPC4 (MAD4) alterations in fine-needle aspirates of the pancreas, a molecular panel correlates with and supplements cytologic diagnosis, 755
 - precursor T-cell acute lymphoblastic leukemia in adults, age-related immunophenotypic, cytogenetic, and molecular subsets, 252
 - Mononucleosis, infectious
 - and Epstein-Barr virus infection, 156
 - fatal, molecular characterization of, 582
 - MUC4 apomucin, expression increases progressively in pancreatic intraepithelial neoplasia, 791
 - Mucin
 - and intestinal metaplasia of esophagus or esophagogastric junction, 117
 - MUC4 expression increases progressively in pancreatic intraepithelial neoplasia, 791
 - Mucosa-associated lymphoid tissue (MALT)
 - MALT lymphoma, 698
 - of thymus, hyperplasia versus lymphoma, 51
 - Multidrug resistance
 - caveolin-1 expression and, 225
 - P-glycoprotein expression in nephroblastoma tumor cells and intratumoral capillary endothelial cells, 484
 - Mycobacterium tuberculosis*, bone marrow samples from patients with aplastic anemia, as not infected with parvovirus B19 and, 36
 - Myelodysplasia
 - spurious dyserythropoiesis as artifact of bone marrow storage, 57
 - therapy-related, with balanced 21q22 translocations, 306
 - Myeloproliferative disorders, chronic, thrombopoietin administration during induction chemotherapy to patients with acute myeloid leukemia induces transient morphologic changes that may resemble, 844
- N**
- Naive T cells, and transient stress lymphocytosis, 819
 - Natural killer cells, lymphomas and leukemias of, a report of seven cases, 41

Needle biopsy. *See also* Fine-needle aspiration biopsy
influence of percentage of preradiation with adenocarcinoma and total radiation dose on pathologic response of unfavorable prostate adenocarcinoma, 927
lobular neoplasia in breast specimens as not associated with increased risk of ductal carcinoma in situ or invasive carcinoma, 797
tissue protection immunohistochemistry, as useful adjunct in interpretation of prostate biopsy specimens and other selected cases in which immunostains are needed on minute lesions, 194

Neoplasms. *See sites and types by name*

Nephroblastoma, multidrug resistance P-glycoprotein expression in tumor cells and intratumoral capillary endothelial cells, 484

News and Notices, 169, 337, 497, 665, 827

Nitric oxide synthase, inducible

but not xanthine oxidase, as highly expressed in interstitial pneumonia and granulomatous diseases of human lung, 132

up-regulation of cyclooxygenase-2 expression in lymphocytic thyroiditis and thyroid tumors, significant correlation with, 546

Nitrite, as adulterant in urine specimens submitted for drug testing, 325

Nora lesion (bizarre parosteal osteochondromatous proliferation), S18

O

Oligoclonality, Kikuchi lymphadenitis with oligoclonal T-cell populations, spontaneous regression of, favors a benign immune reaction over T-cell lymphoma, 627

Ollier disease, S9

Osteoblastoma, S19

Osteochondroma, S5

Osteoid osteoma, S19

Osteosarcoma, chondroblastic type, S20

Ovarian carcinoma

caveolin-1 expression in, as MDR1 independent, 225

cytokeratin 7 and 20 expression in, 944

WT1, estrogen receptor, and progesterone receptor as markers for breast or ovarian primary sites in metastatic adenocarcinoma to body fluids, 745

WT1 immunoreactivity in uterine papillary serous carcinomas is different from serous, 541

Ovarian reserve, in infertility evaluation, S99

Ovulation, in infertility evaluation, S95

Oxygen radical, inducible nitric oxide synthase, but not xanthine oxidase, as highly expressed in interstitial pneumonia and granulomatous diseases of human lung, 132

P

p21^{WAF1/CIP1}, high apoptotic activity and low epithelial cell proliferation with underexpression of p27^{Kip1} and, in mucinous carcinomas of the colorectum, comparison with well-differentiated types, 908

p27^{Kip1}, high apoptotic activity and low epithelial cell proliferation with underexpression of p21^{WAF1/CIP1} and, in mucinous carcinomas of the colorectum, comparison with well-differentiated types, 908

p53 gene, alterations in fine-needle aspirates of the pancreas, a molecular panel correlates with and supplements cytologic diagnosis, 755

p53 protein, expression in primary cutaneous diffuse large B-cell lymphoma, a clinicopathologic study of 15 cases, 574

Pancreas

K-ras, p53, DPC4 (MAD4) alterations in fine-needle aspirates of the, a molecular panel correlates with and supplements cytologic diagnosis, 755

MUC4 expression increases progressively in pancreatic intraepithelial neoplasia, 791

Papanicolaou smear

ASCUS in, problems, controversies, and potential future directions, S62

atypical glandular cells of undetermined significance, interobserver reproducibility in cervical smears and corresponding thin-layer preparations, 96

expediting cervical cancer screening process, a Hong Kong experience using AutoPap primary screening system with location-guided screening capability, 437

tests diagnosed as atypical by cytotechnologist and downgraded to benign by pathologist, 520, 534

unsatisfactory ThinPrep specimens, as missed opportunity for disease detection, 457

willingness to pay for new technologies for, 517, 524

Papillary urothelial neoplasms, S38

Papillomas, squamous cell, of conjunctiva, human papillomavirus not detected in, 429

Parvovirus B19, bone marrow samples from patients with aplastic anemia, as not infected with *Mycobacterium tuberculosis* and, 36

PathVysion, 935

Patient outcomes, cytohistologic discrepancies, as means to improve pathology practice and, 567

Patient preference, in cervical cytology screening, 517, 524

Pediatric laboratory medicine, current challenges and future opportunities, 683

Pelvic washings, diagnostic role of, for transitional carcinoma cell of renal pelvis, 444

Periosteal chondroma, S9

Periosteal osteosarcoma, S20

Peritoneum, in infertility evaluation, S95

Philadelphia (Ph) chromosome, as not a significant adverse prognostic factor in acute lymphoblastic leukemia in elderly patients, 716

Pituitary gland, immunocytochemical localization of mast cells in lymphocytic hypophysitis, 478

Plague, bubonic. *See* Bubonic plague

Plasma, a "percentage correction" formula for evaluation of mixing studies, 62

Platelets, high-pressure liquid chromatography for diagnosis of heparin-induced thrombocytopenia, 900

Pneumococci, multiplexed fluorescent microsphere immunoassay for antibodies to pneumococcal capsular polysaccharides, 589

Pneumonia, interstitial, inducible nitric oxide synthase, but not xanthine oxidase, as highly expressed in granulomatous diseases of human lung and, 132

Point-of-care testing
 neonatal point-of-care monitor, cost analysis of, 809
 in pediatric laboratory medicine, 684
 of prothrombin time
 but not activated partial thromboplastin time, correlates with laboratory methods in patients receiving aprotinin or epsilon-aminocaproic acid while undergoing cardiac surgery, 74
 minimum number of fresh whole blood and plasma samples from patients and healthy subjects for International Sensitivity Index calibration of CoaguChek and RapidPointCoag monitors, 892

Polymerase chain reaction
 fatal infectious mononucleosis, molecular characterization of, 582
 human papillomavirus DNA in malignant epithelial neoplasms of conjunctiva not detected by, 429
 nested, for *Histoplasma capsulatum* detection in tissue sections, staining methods compared with, 597
 reverse-transcription
 caveolin-1 expression in ovarian carcinoma as MDR1 independent, 225
 of cyclin D1 expression in mantle cell lymphoma, 237

Polymorphic fibro-osseous lesion of the femur, S13

Polyps, colonic
 negative colorectal biopsies, deeper examination of, 424
 with no initial pathologic finding, an approach to, 419

Posttransplant lymphoproliferative disorders, flow cytometric immunophenotyping in, 24

Potassium nitrite, as adulterant in urine specimens submitted for drug testing, 325

Prenalytic factors, in pediatric laboratory medicine, 685

Progesterone receptor, as marker for breast or ovarian primary sites in metastatic adenocarcinoma to body fluids, 745

Progressive transformation of germinal centers, Hodgkin lymphoma mistaken for, S76

Prostate cancer
 adenocarcinoma
 immunophenotypic characterization of 225, with intermediate or high Gleason scores, 471
 influence of percentage of preradiation needle biopsies and total radiation dose on pathologic response of unfavorable, 927
 morphologic spectrum of metastatic prostatic adenocarcinoma to the lung, with special emphasis on histologic features overlapping with other pulmonary neoplasms, 552
 biopsies for, tissue protection immunohistochemistry, as useful adjunct in interpretation of biopsy specimens, 194
 prostate-specific antigen and early diagnosis of, S104

Prostate-specific antigen
 and early diagnosis of prostate cancer, S104
 influence of percentage of preradiation needle biopsies with adenocarcinoma and total radiation dose on pathologic response of unfavorable prostate adenocarcinoma, 927

Protein gene product 9.5, immunoreactivity in atypical fibroxanthoma, 126

Prothrombin time
 a "percentage correction" formula for evaluation of mixing studies, 62

point-of-care testing of
 but not activated partial thromboplastin time, correlates with laboratory methods in patients receiving aprotinin or epsilon-aminocaproic acid while undergoing cardiac surgery, 74
 minimum number of fresh whole blood and plasma samples from patients and healthy subjects for International Sensitivity Index calibration of CoaguChek and RapidPointCoag monitors, 892

Pyridinium chlorochromate, as adulterant in urine specimens submitted for drug testing, 325

Q

Quality control
 cytohistologic discrepancies, as means to improve pathology practice and patient outcomes, 567
 for erythrocyte sedimentation rate, use of fresh blood for, 621
 of immunohistochemical assay of HER-2/neu expression in breast cancer, formalin-fixed, paraffin-processed cell line standard for, 7, 81
 in-house consultation in surgical pathology, quantifying value of, 751
 Papanicolaou tests diagnosed as atypical by cytotechnologist and downgraded to benign by pathologist, 520, 534
 serum iron, iron-binding capacity, transferrin saturation, and ferritin levels, diurnal variation of, 802

R

Radiation therapy, influence of percentage of preradiation needle biopsies with adenocarcinoma and total radiation dose on pathologic response of unfavorable prostate adenocarcinoma, 927

RANK (receptor activator of nuclear factor kappa B), and RANK ligand as expressed in, giant cell tumor of bone, 210

RapidPointCoag monitor, 892

Rasmussen encephalitis, a clinicopathologic and immunohistochemical study of seven patients with, 776

Reference intervals, age-specific, 686

Reference ranges, for ratios of log-gaussian analytes, probability-based construction of, an example from automated leukocyte counts, 851

Renal pelvis, transitional carcinoma cell of, diagnostic role of pelvic washings for, 444

Rheumatic diseases, autoimmune, guidelines for laboratory use of autoantibody tests in diagnosis and monitoring of, 316

Richter transformation, and Hodgkin lymphoma diagnosis, S76

Rotaviruses, latex agglutination and enzyme immunoassay compared for detection of, in fecal specimens, 392

S

Salivary glands, Kuttner tumor of the submandibular gland, fine-needle aspiration cytologic findings of seven cases, 103

- Sarcoidosis, inducible nitric oxide synthase, but not xanthine oxidase, as highly expressed in interstitial pneumonia and granulomatous diseases of human lung, 132
- Sarcoma
- chondrosarcoma, S13
 - osteosarcoma, S20
 - soft tissue
 - cytologic features of clear cell sarcoma (malignant melanoma) of soft parts, a study of fine-needle aspirates and exfoliative specimens, 217
 - immunohistochemical staining for KIT in, 183, 188
 - spindle cell, S51
- Sclerosis, systemic, guidelines for laboratory use of autoantibody tests in diagnosis and monitoring of, 316
- Screening
- adult acute leukemias, immunophenotype of, relationship to morphologic and molecular classification and proposal for a minimal screening program highly predictive for lineage discrimination, 380
 - cervical cancer, expediting process for, a Hong Kong experience using AutoPap primary screening system with location-guided screening capability, 437
 - cystic fibrosis, S109
 - prostate cancer, prostate-specific antigen for, S104
- Second opinions, in-house consultation in surgical pathology, quantifying value of, 751
- Semen, in infertility evaluation, S95
- Serotonin, high-pressure liquid chromatography for diagnosis of heparin-induced thrombocytopenia, 900
- Sialadenitis, chronic sclerosing, of the submandibular gland, fine-needle aspiration cytologic findings of seven cases, 103
- Sjögren syndrome, guidelines for laboratory use of autoantibody tests in diagnosis and monitoring of, 316
- Skeleton, cartilaginous lesions of the, S3
- Skin. *See also* Melanoma
 - blastic natural killer cell lymphoma/leukemia of, 41
 - primary cutaneous diffuse large B-cell lymphoma, a clinico-pathologic study of 15 cases, 574
- Smallpox, in bioterrorism, S116
- Smoking, and asbestos exposure in lung cancer, 9
- Southern blot analysis, fatal infectious mononucleosis, molecular characterization of, 582
- Sperm counting, automated sperm concentration analysis with new flow cytometry-based device, S-FCM, 401
- Spindle cells, metaplasia of thyroid arising in association with papillary carcinoma and follicular adenoma, 199
- Spindle cell sarcoma, S51
- Spleen, marginal zone lymphoma of, 698
- Spot tests, for detecting adulterants in urine specimens submitted for drug testing, 325
- Squamous intraepithelial lesion
 - ASCUS in Papanicolaou smear, problems, controversies, and potential future directions, S62
 - immunohistochemical localization of survivin in benign cervical mucosa, cervical dysplasia, and invasive squamous cell carcinoma, 738
- STI571 (imatinib mesylate)
 - for chronic myeloid leukemia, as reducing bone marrow cellularity and normalizing morphologic features regardless of cytogenetic response, 360
 - for gastrointestinal stromal tumor treatment, 183, 188
 - as targeted therapy, 355
- Stomach, gastrointestinal stromal tumors of, S50
- Streptococcus pneumoniae*, multiplexed fluorescent microsphere immunoassay for antibodies to pneumococcal capsular polysaccharides, 589
- Submandibular gland, Kuttner tumor of the, fine-needle aspiration cytologic findings of seven cases, 103
- Subungual exostosis, S18
- Surgical pathology, in-house consultation in, quantifying value of, 751
- Survivin, immunohistochemical localization of, in benign cervical mucosa, cervical dysplasia, and invasive squamous cell carcinoma, 738
- Sweat test, in cystic fibrosis diagnosis, S109
- T**
- t(11;14)(q13;q32) translocation, in mantle cell lymphoma, 237, 246
- Targeted therapeutics, advent of, and implications for pathologists, 355
- Telepathology, for routine light microscopic and frozen section diagnosis, 783
- Terrorism, biological, clinical recognition and primary management of, S116
- TEST 1 automated system, using fresh blood samples for quality control with, 621
- Therapy-related diseases, acute myeloid leukemia and myelodysplasia, with balanced 21q22 translocations, 306
- Thin-layer preparations, atypical glandular cells of undetermined significance, interobserver reproducibility in cervical smears and corresponding, 96
- ThinPrep Pap Test, unsatisfactory specimens for, as missed opportunity for disease detection, 457
- Thrombocytopenia, heparin-induced, high-pressure liquid chromatography for diagnosis of, 900
- Thrombopoietin, administration during induction chemotherapy to patients with acute myeloid leukemia induces transient morphologic changes that may resemble chronic myeloproliferative disorders, 844
- Thymus, mucosa-associated lymphoid tissue of, hyperplasia versus lymphoma, 51
- Thyroid gland
 - follicular-patterned lesions of, 143
 - follicular variant of papillary thyroid carcinoma
 - strict criteria for diagnosis of encapsulated, 16
 - why there is tendency to "overdiagnose," 19
 - spindle cell metaplasia of, arising in association with papillary carcinoma and follicular adenoma, 199
 - up-regulation of cyclooxygenase-2 expression in lymphocytic thyroiditis and tumors of, significant correlation with inducible nitric oxide synthase, 546
- Thyroiditis, lymphocytic, up-regulation of cyclooxygenase-2 expression in thyroid tumors and, significant correlation with inducible nitric oxide synthase, 546
- Tietze syndrome, S18
- Tissue microarray, interlaboratory variation in immunohistochemical determination of estrogen receptor status using a breast cancer, assessment of, 723

- Tissue protection immunohistochemistry, as useful adjunct in interpretation of prostate biopsy specimens and other selected cases in which immunostains are needed on minute lesions, 194
- T lymphocytes
 - cytotoxic, proliferation in chronic active Epstein-Barr virus infection in childhood, 283
 - flow cytometric analysis of cerebrospinal fluid samples and its usefulness in routine clinical practice, 952
 - in transient stress lymphocytosis, 819
- Transferrin, diurnal variation of saturation of, 802
- Transplantation, posttransplant lymphoproliferative disorders, flow cytometric immunophenotyping in, 24
- Tularemia, in bioterrorism, S116
- Tumors. *See sites and types by name*
- 21q22 translocations, therapy-related acute myeloid leukemia and myelodysplasia, with balanced, 306

U

- Ureter, urothelial neoplasms of, an epidemiologic, pathologic, and clinical review, S36
- Urinalysis, rapid spot tests for detecting presence of adulterants in specimens submitted for drug testing, 325
- Urinary cytology, associated with human polyomavirus and indinavir therapy in HIV-infected patients, 922
- Urinary tract
 - transitional carcinoma cell of renal pelvis, diagnostic role of pelvic washings for, 444
 - urothelial neoplasms of kidney and ureter, an epidemiologic, pathologic, and clinical review, S36
- Urothelial neoplasms, of kidney and ureter, an epidemiologic, pathologic, and clinical review, S36
- Uterus. *See also* Cervix, uterine
 - granulomas of, clinical and pathologic features, 771
 - in infertility evaluation, S95
 - WT1 immunoreactivity in uterine papillary serous carcinomas is different from serous ovarian carcinomas, 541

V

- Vaccines, pneumococcal, 589
- Vancomycin-resistant enterococci, comparison of two commercially available selective media to screen for, 152
- Variola virus, in bioterrorism, S116

W

- Westergren ESR method, TEST 1 automated system compared with, 621
- World Health Organization (WHO) classification of hematopoietic and lymphoid tissues, Hodgkin lymphoma in, S78
- WT1
 - immunoreactivity in uterine papillary serous carcinomas is different from serous ovarian carcinomas, 541
 - as marker for breast or ovarian primary sites in metastatic adenocarcinoma to body fluids, 745

X

- Xanthine oxidase, inducible nitric oxide synthase, but not, as highly expressed in interstitial pneumonia and granulomatous diseases of human lung, 132

Y

- Yersinia pestis*
 - in bioterrorism, S116
 - immunohistochemical detection of, in formalin-fixed, paraffin-embedded tissue, 205

